

# Manufacturers Record

## Exponent of America



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Baltimore, Md.  
JUNE 23, 1927

## A Call to Empire Building by the Nation.

With a development of wealth increasing at the rate of about \$15,000,000,000 a year, and now totaling over \$400,000,000,000; with a growth of railroad traffic far beyond anything ever known up to a year or two ago and steadily expanding; with an outlay for public utility expansion of over \$7,000,000,000 in the last five years, and with other evidences of progress staggering to contemplate, this country must now meet and face a situation which demands the greatest business leadership we have ever had.

Statesmanship in political life and in business demands a broader vision than has ever been necessary in the past, unless perhaps that daring, almost unequalled, action in the buying of what is known as "the Louisiana Purchase"—nearly a million square miles — could match or even surpass it, considering the difference in times, of what we now need to do.

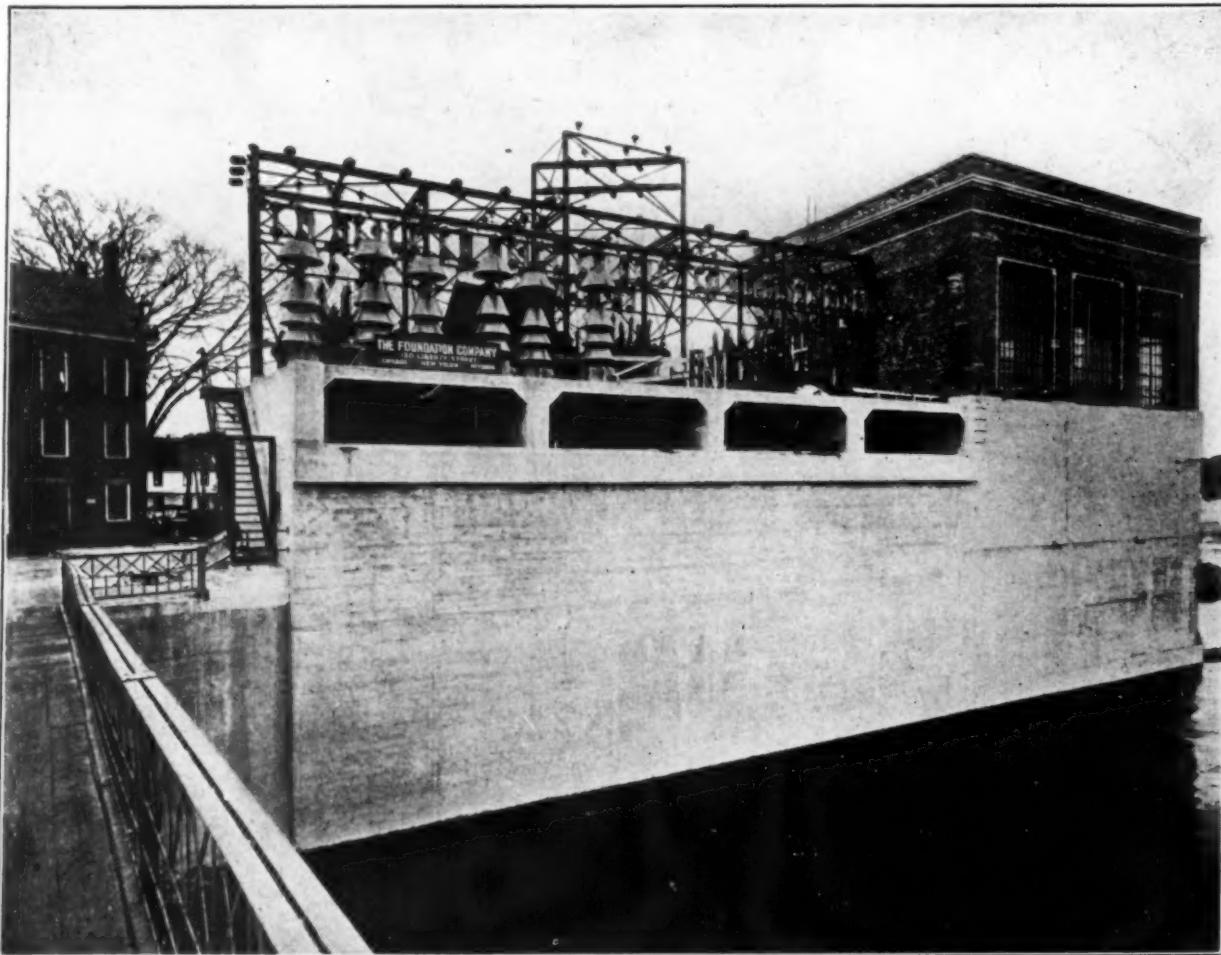
First and foremost we must fully safeguard the entire Mississippi Valley with its 1,200,000 square miles of territory, stretching from the Rocky Mountains to the Blue Ridge and the Alleghanies, from any possible danger of another great flood. It matters not whether that would involve the expenditure of one billion dollars or five times that amount, it will repay the investment in full every year in the increased prosperity and safety to the country.

The development of the proposed deep waterway from the Lakes through the St. Lawrence, with the vast hydro-electric potentialities involved, is another work to which the nation should address itself, and in connection therewith the construction of a canal direct from the Lakes to the seaboard. No time should be lost in building the Nicaraguan Canal whether that cost would be \$500,000,000, or a billion dollars as some have estimated, for the Panama Canal will soon have reached the limit of its capacity and besides it is just as dangerous to depend upon that one waterway between the Atlantic and the Pacific as it would be for the country to depend entirely upon one trunk line between the Atlantic Seaboard and the Pacific Coast.

These great enterprises call for vision in the business and political world, and for the kind of energy and activity which were thrown into the construction of the Panama Canal. Or better still in the building of the Trans-Continental lines shortly after the Civil War, which so enormously increased the prosperity of this country that it enabled us promptly to pay off the Civil War debt.

Out of the construction of these great enterprises there would come such a boundless activity of business that every manufacturing plant in the country would be fully employed, not a man would be idle for the lack of work, agricultural interests would be vastly benefitted, and the nation as a whole would sweep out into a mighty campaign so daring, so broad, so profitable as to fulfill the highest dreams of the greatest leaders in statesmanship or business that America has ever known.

Elsewhere in this issue we have tried to emphasize the importance of these great undertakings.

*Addition to Hydro-Electric Plant*

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*West Buxton, Maine*

The existing Hydro-Electric Plant at West Buxton, Maine, was not utilizing the available stream flow. New units, partially shown above, were built to use it. Because of existing local conditions the plans contained many unusual features. The Foundation Company commenced construction on May 19, 1926 and the unit went into operation January 26, 1927.

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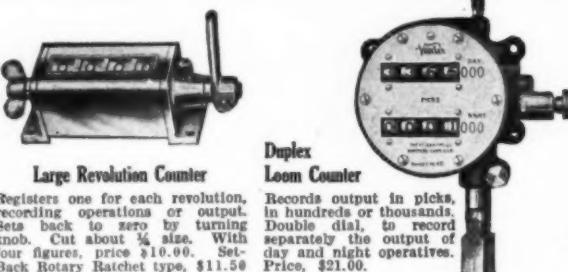
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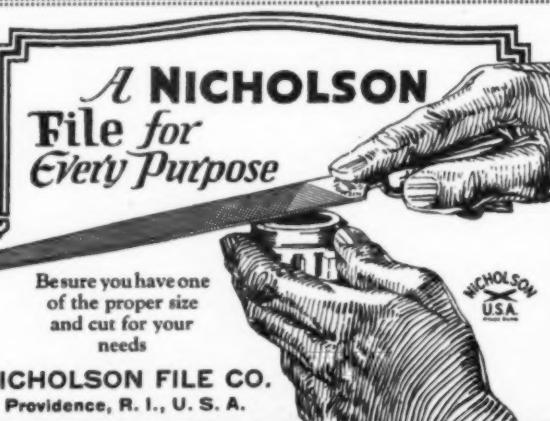
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# Manufacturers Record

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Vol. XCI No. 25 }  
Weekly.

BALTIMORE, JUNE 23, 1927.

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## Four Vast Undertakings That Should Appeal to the Daring Genius of America and Bring Boundless Prosperity.

THE time has come when the people of America must learn to think in billions and, indeed, in tens of billions, in considering plans for the future of this country, for our wealth is now over \$400,000,000,000 and is increasing at the rate of \$15,000,000,000 or over annually. Our national resources and our progress are perhaps not fully comprehended by the vast majority of our people.

Nature has been bounteous to the extreme in our geographical location and in our vast mineral, agricultural, timber and water-power resources.

Rich in these things beyond any other country in the world, rich in our productive power to the extent that of coal, and oil, and iron and steel, and many other things we are producing and consuming 50 per cent or more of the output of the entire world. Our 6 per cent of the world's population thus, broadly speaking, has more than 50 per cent of the world's producing and consuming power in the great industrial things which make for national upbuilding.

But, as the MANUFACTURERS RECORD has repeatedly said, all that we have done thus far is but the pioneering work. Like the Western pioneer, who opened up that vast region, cleared a bit of land on which to erect his rude cabin, to be followed in time by the building of great railroads and cities which these early adventurers made possible, this country has been doing pioneering work.

We have pioneered in agriculture, in manufactures, in chemistry, in research. We have been wasteful to the extreme in the way in which we have done many of these things.

The very boundlessness of our resources has made us wasteful and extravagant in their use.

Many years ago, when the English Iron Institute held its annual meeting in America and visited the iron-making sections of this country, its members expressed their amazement at the wasteful way in which we had disregarded the value of our raw materials. But we were pioneers. Like the pioneer who cut down magnificent forests and burned the timber because there was no other way of making a home, so

we have pioneered in many lines of material development. We have failed thus far to comprehend the tremendous things to be done in America if this nation is to continue to go forward beyond the pioneering state into great scientific, almost limitless, empire building.

Though the foremost scientific men of America, from the days of Matthew Maury, long before the Civil War, saw the supreme necessity of building an Isthmian Canal, it required the daring and the determination of a Roosevelt to bring about the construction of the Panama Canal. Precedents were thrown to the wind. Perhaps some things were done in a ruthless way. But, despite all the opposition of the transcontinental railroads, the canal was built and opened up a new era in world commerce. It has already demonstrated its supreme necessity to this country. We are already beginning to see that the Panama Canal is in danger of becoming congested, and that for safety in peace as well as in war the Nicaraguan Canal should be built.

That is another enterprise that requires the same kind of daring and boldness which marked the work of Roosevelt. Some leader big enough and broad enough and with influence enough to carry the country with him must take hold of that situation and carry the country into active construction work; for, long before that canal can be completed, its supreme importance to the nation will be fully realized.

The projected St. Lawrence Canal and the all-American canal from the Lakes to New York are great schemes, worthy of the best energy and broadness of vision of the country. These should be undertaken without delay.

And then there comes that still mightier problem of harnessing and controlling the waters of the great central region from the Rocky Mountains to the Alleghanies, a task of greater magnitude and greater value to the country than the Panama Canal, the St. Lawrence and the all-American canal combined. We need in this situation such men as James J. Hill, the empire builder of the Northwest; Roosevelt, the creator of the Panama Canal, or Rhodes, the empire builder of Africa, to fully awaken the entire country to a task so stupendous, but which would yield a profit to the country

so far and away beyond the cost, even though that might mean billions, that to delay this work would be a reflection upon the intelligence, the initiative and the energy of the people of America.

Some will object that these great undertakings would involve a heavy increase in the bonded indebtedness of the United States. Suppose they would. Is there any great business enterprise, railroad, iron, steel or oil, in this country which, given such conditions, would not enormously increase its bonded indebtedness for the profit which it would gain through the development thus created?

The nation here has a treasure, the value of which runs not simply into billions, but into hundreds of billions. Stretching between the Rocky Mountains and the Alleghanies and the Blue Ridge, and from the border line of Canada to the Gulf of Mexico, is the most remarkable region on the face of the earth. It is capable of supporting a population much greater than that of the entire country of today. It is the very heart of America. To neglect to utilize these vast resources would be almost criminal neglect of our opportunities. Here, to a large extent, must be raised the wheat and the corn and the oats, the livestock and other agricultural products to feed the teeming population of other parts of the country. Here, too, must be raised much of the cotton, the fruits and vegetables to help to feed the people of America. Through the development of that region will be created a wealth greater by far than the entire wealth of the United States of today.

Here is an asset of value beyond human computation, which as a nation we have sadly neglected. For generation after generation we have gone on without properly utilizing the limitless value in the rainfall and in the rivers of this great territory.

We have permitted them to master us, instead of mastering them.

We have let them carry, by erosion of soil, a vast amount of the fertility of the land into the Gulf of Mexico. We have let these rivers be a constant menace to the entire region drained, instead of being a source of boundless opportunity for advancement.

In these great projects will be found a call for the energy, the initiative and the full power of the American people. All of these tasks can be accomplished by this country, and out of their achievement would follow a wealth so great, a progress so vast, that all that we have done up to the present time would, indeed, be only the pioneering work in the utilization of resources so great that a study of them practically staggers the human mind.

In the doing of these things there would come a demand for all of the machinery of every kind that could be built in this country; for all of the constructive forces of engineering and contracting firms; for all of the influence and power of our financial leaders in providing the money necessary to enable the Government to carry out these undertakings on a basis which would prove in each case as profitable to the United States as the Panama Canal has already proven to be. Indeed, there is scarcely a project which we have mentioned that, in its ultimate result, would not surpass in value to the country even the Panama Canal with all the tremendous

influence which it has had upon this country and upon world commerce.

Are the people of America ready to step out of the pioneering stage and go forward in these mighty undertakings, which would rank as among the greatest enterprises ever conceived and carried out by the power of man?

---

**PRESIDENT COOLIDGE INVITED TO CHATTANOOGA FOR OCTOBER CONVENTION OF NATIONAL ASSOCIATION OF MANUFACTURERS.**

**P**RESIDENT COOLIDGE has been invited by the National Association of Manufacturers to attend the annual convention of that organization, which will be held in Chattanooga in October next. It is to be hoped that the President will accept. A visit at that time of the year to the South, and especially upon this occasion, would bring him in personal touch with a large number of the leading people of the South, and with many hundreds of the leading manufacturers from all parts of the country.

This is the first time in many years that the National Association of Manufacturers has met in the South. It will be a great occasion. It will bring into this section many of the foremost business men of America, especially leaders in the manufacturing industry, many of whom have never been in the South, unless, perchance, they have made a hurried winter visit to Florida, and who, therefore, know comparatively little by personal observation of this section.

At Chattanooga they will find one of the busiest cities in America, in the center of a region of vast mineral resources, of hydro-electric development, and of mountain and valley scenery which can scarcely be surpassed anywhere on the American continent. It is a superb location for such a meeting. During the Civil War it was one of the strategic points in the great contest between the Union and the Confederacy. It is now one of the great strategic points in the industrial and general business development of the South. There the North, and the West, and the South alike meet on common ground and unite for the upbuilding of that city and of all the surrounding territory.

We trust, therefore, that Mr. Coolidge will find in this invitation an opportunity to be promptly accepted to see that portion of the South for himself, and to hear something of the marvelous advantages of the South, and in such a visit and such a speech as he would make, draw the business interests of the North, the South and the West alike into closer contact, with a growing realization of the fact that the development of the South is perhaps the greatest possible factor in advancing the wealth and the progress of the whole nation.

It is important in this connection to emphasize to every commercial organization in the South and to its business men generally that they should take an active interest in this October meeting. Pre-eminently is it desirable that the manufacturers of the South should become identified with the National Association of Manufacturers to a larger extent than heretofore. The President of the organization, John E. Edgerton, is a Southern man. Time and time again he has been honored by that Association with election to the presidency, though the South has a very small minority of membership as compared with the North and West.

Here is an opportunity for the manufacturers of this section to become identified with that organization, to help make the Chattanooga meeting the best it has ever held, and to make it a powerful influence for the upbuilding of the whole South.

## An Analysis by States of Contributions to the Red Cross Flood Fund.

**A**NALYZING the contributions by States to the Red Cross fund for the flood sufferers up to the end of May as compiled by the Red Cross for the MANUFACTURERS RECORD, and published two weeks ago, some very interesting figures are made available.

The New England States had contributed \$1,218,624.24, or an average per capita of 14.9 cents, with Massachusetts leading the rest of New England with an average of 17.1 cents per capita for its population. The last on the New England list was Maine, with 8 cents, and the next Vermont with 9.9 cents.

Delaware led the entire country with an average of 27.7 cents, followed by New York with 22.1 cents. There is a great concentration of wealth in Delaware, and probably some of these enormously wealthy concerns gave rather freely, although the total for the entire State figured up only \$67,500, while Massachusetts with its large population and great accumulation of wealth gave \$728,211.57, or about 60 per cent of the entire contribution from New England.

In the Southern States, Missouri, with the great city of St. Louis included, gave an average of 16.3 cents per capita, or a total of \$574,000; followed as to the aggregate amount by Texas with \$338,000; but that only represented 6.2 cents per capita for Texas.

While the District of Columbia is included in this list, it can hardly be classed as a separate State by reason of its large population in a small area; but if taken by itself it would stand at even above New York, in contributions per capita with 26.2 cents.

Excepting Maryland, whose total was 12.2 cents per capita, and Missouri as already quoted, Florida led the entire South with 11.6 cents, or nearly three times as much per capita as Georgia, and with a population of much less than one-half of Georgia gave a total of \$24,000 in excess of Georgia.

Suffering from the fearful disaster over a large part of the State, Louisiana contributed \$210,150.15, or an average of 10.8 cents per capita, in direct contributions to the Red Cross, while its people spent individually and through their own local agencies probably far more than they contributed to the Red Cross itself.

We regret that North Carolina, South Carolina, Tennessee, Texas, Virginia, West Virginia and Kentucky, in addition to the States already named, ranked very low in their contributions per capita as compared with Florida, Louisiana and Missouri.

The East-North Central States—Ohio, Indiana, Illinois, Michigan and Wisconsin—gave a total of \$3,046,303.15, as compared with a total from Southern States of \$3,153,568.76.

The West-North Central States, which included Minnesota, Iowa, the Dakotas, Nebraska and Kansas, gave a total of \$731,000, of which Minnesota gave \$273,000. The average of these States per capita was 7.6 cents, or a fraction of a cent less per capita than the Southern States, while the Mountain regions, including Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah and Nevada, gave a total of \$217,229, or an average of 5.4 cents per capita.

The Pacific Coast States, on the other hand, did very much better, contributing a total of \$1,257,192, of which over \$1,000,000 was from California, with an average of 24 cents per capita, the average for the three Pacific Coast States being 15.6 cents.

The average per capita for the entire country was 12.1 cents. This sum seems exceedingly small when looked at from this viewpoint, but it must be borne in mind that there

*Per Capita Red Cross Contributions in Continental United States, by States and Geographic Divisions, for Mississippi Valley Flood Relief Up to May 31.*

States and Geographic Divisions	Estimated Population 1927.	Contributions Per Capita, May 27, 1927.	Per Capita, Cents. 1922.	Wealth
Maine .....	793,000	\$63,977.41	08.0	\$2,586
New Hampshire...	455,000	50,927.35	11.2	3,074
Vermont .....	352,428	34,982.67	09.9	2,389
Massachusetts ....	4,242,000	728,211.57	17.1	3,243
Rhode Island.....	704,000	85,601.43	12.1	3,086
Connecticut .....	1,636,000	254,923.81	15.6	3,614
 New England....	 8,182,428	 \$1,218,624.24	 14.9	 \$3,186
New York.....	11,423,000	\$2,533,023.29	22.1	\$3,436
New Jersey.....	3,749,000	510,224.44	13.6	3,524
Pennsylvania .....	9,730,000	1,635,661.64	16.8	3,187
Delaware .....	243,000	67,500.00	27.7	2,728
 Middle Atlantic..	 25,145,000	 \$4,746,409.37	 18.9	 \$3,367
Alabama .....	2,549,000	\$153,042.11	06.6	\$1,244
Arkansas .....	1,923,000	97,000.00	05.0	1,439
Dist. of Columbia	540,000	141,853.59	26.2	3,879
Florida .....	1,363,000	158,334.56	11.6	2,358
Georgia .....	3,171,000	134,464.79	04.2	1,306
Kentucky .....	2,538,000	193,695.15	07.6	1,459
Louisiana .....	1,934,000	210,150.15	10.8	1,855
Maryland .....	1,597,000	194,881.15	12.2	2,665
Mississippi .....	1,790,618	135,862.77	07.6	1,216
Missouri .....	3,510,000	574,000.00	16.3	2,903
North Carolina....	2,897,000	160,730.30	05.5	1,703
Oklahoma .....	2,384,000	90,000.00	03.8	1,864
South Carolina....	1,845,000	63,234.88	03.4	1,385
Tennessee .....	2,485,000	251,059.17	10.1	1,773
Texas .....	5,397,000	338,000.00	06.2	2,010
Virginia .....	2,546,000	167,622.37	06.6	2,050
West Virginia.....	1,696,000	89,637.77	05.3	3,040
 South .....	 40,165,618	 \$3,153,568.76	 07.9	 \$1,915
Ohio .....	6,710,000	\$859,593.82	12.8	\$3,048
Indiana .....	3,150,000	346,709.33	11.0	2,942
Illinois .....	7,296,000	1,154,000.00	15.8	3,295
Michigan .....	4,490,000	423,000.00	09.4	2,890
Wisconsin .....	2,918,000	263,000.00	09.0	2,887
 East-North Central	 24,564,000	 \$3,046,303.15	 12.4	 \$3,063
Minnesota .....	2,686,000	\$273,000.00	10.2	\$3,442
Iowa .....	2,425,000	198,000.00	08.2	4,274
North Dakota....	641,192	28,000.00	04.4	3,692
South Dakota....	696,000	25,000.00	03.6	4,482
Nebraska .....	1,396,000	109,000.00	07.9	4,004
Kansas .....	1,828,000	98,000.00	05.3	3,493
 West-North Central	 9,672,192	 \$731,000.00	 07.6	 \$3,856
Montana .....	714,000	\$26,000.00	03.6	\$3,691
Idaho .....	534,000	18,964.00	03.5	3,301
Wyoming .....	241,000	15,000.00	06.2	4,663
Colorado .....	1,074,000	97,000.00	09.0	3,285
New Mexico.....	392,000	16,000.00	04.0	2,299
Arizona .....	459,000	25,567.00	05.4	3,512
Utah .....	522,000	11,317.00	02.2	3,247
Nevada .....	77,407	7,381.00	09.5	6,998
 Mountain .....	 4,013,407	 \$217,229.00	 05.4	 \$3,435
Washington .....	1,562,000	\$105,986.00	06.8	\$3,600
Oregon .....	890,000	83,488.00	09.4	4,182
California .....	4,433,000	1,067,718.00	24.0	4,007
 Pacific .....	 6,885,000	 \$1,257,192.00	 15.6	 \$3,934
Total Continental United States..	118,627,645	\$14,370,326.52	12.1	\$2,918

are millions and millions of people who have not contributed a single dollar to this fund. That is always the case in an emergency of this kind.

It is gratifying in a study of this situation to note how freely the South has given as a whole in proportion to its population, though some States have fallen sadly short, while Florida, the State of which its enemies have tried to create the impression that it was a "busted" region, stands out conspicuously for the splendid work that it has done in proportion to its population, with an average per capita larger than Indiana or Minnesota and several times as large as that of many Western States. Moreover it should be remembered that the South, compared with the rest of the country, has a large percentage of negroes who have not given much to the Red Cross work.

In publishing these figures we are doing so with a view to stimulating the States which have failed short to realize that the work of the Red Cross must continue for a long time to come, and that additional contributions will be needed for many months.

In the aggregate for the whole country New York leads with \$2,533,000, followed by Pennsylvania with \$1,635,000, Illinois with \$1,154,000 and Massachusetts—bless that good, old, rock-ribbed State—with a total of \$728,211.

A study of the accompanying table will prove of interest to those who are watching the great work of the Red Cross and the efforts of the liberal-minded people of the country to help to succor those who have lost all, to save from disease and death some of the many thousands whose lives are now endangered by what they have been passing through, and who will have to pass through many months of hardship, poverty and disease. But all that the Red Cross can do is far less than is needed.

"Unto whom much has been given, of him shall much be required."

#### GIVE MORE, BECAUSE MORE IS NEEDED.

**L**EHMAN JOHNSON of Memphis, Tenn., recently sent a telegram to the editor of the National Provisioner, Chicago, suggesting that all buyers of raw products, oil, meal and linters from the Mississippi Valley section and all sellers of finished products, cooking oil, pork, lard, lard compounds, flour, mixed feeds, machinery, club together in one big Buyers and Sellers Fund in goods and money for the purpose of helping the flood situation by reducing discounts. In his telegram he stated that the editor of the Progressive Farmer had offered to join in an appeal to their advertisers, particularly of agricultural machinery, in this work.

In a statement about the telegram, Mr. Johnson wrote that, when the national convention of oil millers and refiners, to whom the Mississippi Valley means so much, met in the heart of the flooded district and adjourned with only fine resolutions and with no indirect or direct aid to the distressed cotton growers, he felt ashamed and appealed to the editor of the National Provisioner to give the big buyers and distributors a chance to increase their gifts in a way to get full credit for them—i. e., public notice in the trade journals. He said:

"Adding agricultural machinery men, flour manufacturers, etc., \$1,000,000 could be added to the Red Cross relief fund and, if it were, the public from Maine to California would be loud in their praise of the donors, and great good would be gained for the oil mills and refiners of the Interstate Cotton-seed Crushers Association, under whose auspices the movement started. The keynote of this suggestion is to give more because more is needed, the increased gift to come from those who have special interest in and great good will for the Mississippi Valley and who deserve public knowledge and credit for their gifts."

#### BIG INCREASES IN BUSINESS BY BIG CONCERNs.

**A** REMARKABLE bit of news which escaped the editorial eye at the time it appeared in an advertisement of the Industrial Bureau of the Chamber of Commerce, Atlanta, in our issue of June 9 was given in a report made by many concerns showing their increase in business in the South during the first quarter of 1927.

The Industrial Bureau asked the leading national concerns, leaders in American industry having headquarters in Atlanta, how the first quarter of 1927 compared with the same period of 1926. The replies show the following splendid gains ranging all the way from 4 per cent to 200 per cent increase over the same period of 1926. The advertisement of the Industrial Bureau carried the following statement:

"We asked the question 'How did your first quarter for 1927 compare with the same period for 1926 in the Southern territory?' Space permits publication of only a few of the answers, which are typical. Many others were given in confidence and cannot be published."

The list as published by the Industrial Bureau is as follows:

	Per Cent Increase
American Multigraph Co.	4.
Certain-teed Products Corp.	29.7
Bradley Knitting Co.	4.
Kelly-Springfield Tire Co.	158.
Truscon Steel Co.	18.
L. C. Smith Typewriter Co.	10.
Monroe Calculating Machine Co.	35.
The Maytag Co.	200.
Frigidaire Corporation	50.
Elliott Addressing Systems	10.
Columbia Phonograph Co.	71.
Stromberg Electric Co.	12½
Whitehead & Hoag Co.	39.1
Milwaukee Tool Co.	86.6
Cannon Mills, Inc.	20.
Line-A-Time Mfg Co.	50.
Simplex Piston Rings Co.	63.
J. I. Case Threshing Machine Co.	10.
Hendricks Electric Co.	80.
Whitaker Paper Co.	4.
Lee Tire & Rubber Co.	5.
Yarnell-Waring Co.	18½
Dictaphone Sales Corp.	22.
Fuller Brush Co.	18.
Automatic Refrigerator Co.	15.
Egry Register Co.	6.5
Russell Mfg Co., Inc.	28.
Wm. E. Wright & Son	20.
Erie Steam Shovel Co.	15.
Gerrard Wire Tying Machines Co.	33.72
Waters & Waters Mfg Co.	33½
C. F. Houghton & Co.	18.
Commercial Envelope Co., Inc.	25.
Structural Slate Co.	30.
Miller-Bryant-Pierce Co.	70.
Miller Rubber Co.	33½

Comment is unnecessary.

#### THE FAR PACIFIC COAST'S INTEREST IN SOUTHERN SECURITIES.

Lumbermen's Trust Company.

Portland, Oregon.

Branch Bond Department.  
Seattle Wash., June 7.

*Editor Manufacturers Record:*

We are in receipt of your 1927 edition of "The Blue Book of Southern Progress" and wish to thank you for it.

As dealing in a wide selection of bonds, we have sold a great many public utility, industrial and railroad issues, which are located in the South. I find in looking through your book that there is considerable information which we are not able to obtain from circulars describing the various issues. I find especially interesting your chapter on "Southern Banking Resources and Bond Sales in the South." We see from time to time various statements regarding financial conditions of various States, but this is the first record I have seen of the total indebtedness of a State, and the figures are very interesting.

I thank you for this courtesy and assure you of my desire to be of reciprocal service.

M. W. McINNIS, Manager.

### FLORIDA MOTOR TOURIST TRAVEL SETS RECORD FOR MAY.

MORE than double the number of motor tourists passed through the Jacksonville gateway into Florida during last month than in May, 1925. There was an increase of over 70 per cent in the number of Florida motor tourist cars compared with May of last year and in 1925.

According to the official record of tourist cars with "out-of-State licenses" southbound over the Jacksonville-St. John's River bridge, at Jacksonville, 4149 motor vehicles carried 17,603 passengers into central and lower Florida during the month of May, compared with 2386 cars and 9332 passengers during May, 1926, and 2435 cars with 7408 passengers in May, 1925. This is the record of motor tourist cars entering the State through one point and does not take into account those passing into Florida from the West.

The surrounding Southern States furnished the larger proportion of these motorists to Florida, but in May there were 427 cars with 1750 passengers registered from New York State; 203 cars and 835 passengers from Pennsylvania; 165 cars and 601 passengers from New Jersey; 150 cars and 620 passengers from Ohio, and 110 cars and 410 passengers from Michigan. Thirty-five of the cars were registered from Canada and 52 from California.

This increase in motor tourist travel to Florida at this time of the year indicates that Florida should have a better summer season than last year. Building and construction activities are reported for many parts of the State and the resort sections are planning for an early movement of tourists next winter with many hotels preparing to open for the season in October.

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### OUR HUGE STOCK OF GOLD AND CORRESPONDING ENORMOUS BANKING CAPACITY.

IN their June Economic Review, Caldwell & Co., bankers, Nashville, Tenn., direct attention to the enormous stock of gold in the United States as follows:

"Back of all commercial activity, the mainspring of prosperity is our unprecedent banking strength. Our total gold stock—on which banking credit is based—is now approximately \$4,700,000,000. This estimate includes \$59,000,000 held abroad. There has been an increase of about \$200,000,000 in five months. This is the largest gain since 1924 and the total stock is the largest on record. In amount it exceeds the gold held by England, France, Germany, Italy, Spain, Sweden and Argentine Republic by a large margin. It approximately equals the monetary gold stock held by all the rest of the world combined."

"Not only have we the largest gold reserve, but through our Federal reserve system we are able to use this gold more efficiently than it can be used in other countries.

"It has been estimated by Professor Kemmerer, financial expert of Princeton University, that we have fully \$2,000,000,000 of gold in excess of our actual needs—that is, what we need for sustaining the present volume of business. This estimate indicates that, if necessary, we could increase our bank loans somewhere around \$40,000,000,000. We apparently have sufficient gold to meet credit requirements of any legitimate business demands that can conceivably be made."

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### VIEWS OF A RAILROAD OFFICIAL.

T. G. BEARD, general freight agent of the Southern Pacific Lines, in a letter to the MANUFACTURERS RECORD said:

"I look forward to the receipt of your current issues, which are always interesting and instructive. In this connection permit me to say that I know of no agency that has so efficiently and consistently aided in the development of the South and furthered its wonderful progress."

### A Superb Statement of Sentiment of the Flood Regions.

HON. JOHN SHARP WILLIAMS—for many years a United States Senator—a cotton planter who knows the very life of the Mississippi Valley people, is a director of the Red Cross. In a message to his fellow Red Cross workers he really gave an inspiring message to the people of America. Here it is:

"God lets great calamities fall on us in order that we may see, realize and remember the goodness of the hearts and the generosity of the impulses of our fellow men and women—the spectacle of it, demonstrating in spite of our spells of pessimism and cynicism that we are all, after all, one—in spite of differences of section, politics, religion and race. It is being displayed now north, south, east and west. In great emergencies like this our 'Common Fatherhood and Common Brotherhood' become realized facts.

"The old superb fighting spirit of the South, among those who are helping and those who are being helped and those helping themselves, is being manifested daily and nightly as a living thing, that has never died and can not die; and the outpouring of the hearts of the nation is bidding us 'God speed.'

"From the Yazoo hills in Mississippi to the foothills of the Ozarks in Arkansas and Missouri and thence southward to the Mexican gulf the Mississippi river has become one vast inland sea—lands submerged, the people refugees. But they are not sparing refugees. Their magnificent sense of humor keeps them from overcomplaining. Thank heaven! these people have ever been able to meet apparent defeat and seemingly overwhelming misfortunes, not only with fortitude, for themselves but for their fellows. We are doing all we can for ourselves—for white and for black—and for what is beyond our power to do others are doing it for us with profound sympathy and heartfelt generosity. We need it all and more, we are thankful for it all and would be thankful even if it were less, and shall never forget it. Meantime where the land is unsubmerged the flowers are blooming, the birds are singing, the darkies are laughing, we are 'stiffening our sinews and summoning up our courage' and 'God is in His heaven.'

"The great work of rehabilitation is yet ahead of us. Further ahead yet is the work of making safe for the future. The people who built the Panama canal will not grudge an equal sum of money to harness and control the Father of Waters and to make 'The Great Valley' safely habitable and cultivable. The engineering part of the problem is not difficult—it is only stupendous—that is all. It is not so much a question of what to do from an engineer's standpoint, as it is a question of how to get the money to do it with and how rapidly to expend it in the doing. Making 'The Great Valley' safe not only for this generation but for the teeming millions destined hereafter to populate it is worth more to American agriculture, commerce, transportation, manufactures and social life, than ten Panama or other inter-oceanic canals.

"Blessed of all men is he who, 'putting his hands to the plough looketh not back.' This nation will be like that man."

### ELECTRIC POWER COMPANIES AS MISSIONARIES OF MATERIAL PROGRESS.

**T**O the railroads must go the honor of being the first sectional and national upbuilders of modern time. They were the pioneers in broadening the activity and in creating new wealth of the nation. It was the railroads that made possible the early settlement and development of the West and other parts of our country. Latterly other great quasi-public business organizations—public utilities and more particularly hydro-electric power companies, like the railroads are playing the part of missionaries of material progress. Through intelligent advertising, through their development and service departments they are likewise upbuilders and creators of material wealth.

Strikingly presenting this constructive feature in the operation of hydro-electric power companies, P. S. Arkwright, President of the Georgia Power Company, Atlanta, speaking before a Sales Department conference of his organization, said in part:

"There is no concern as interested in building up the State as we are. And that will last. Our property is permanently fixed. We cannot move away. In addition to our work through our service to build up the territory it is to our selfish interests more than any other business to devote every resource and every power at our command to stimulate the prosperity and growth of this territory. That is why we try to take an interest in everything that makes for the growth and prosperity of this territory. That is why you will find us advertising in the national magazines to try to induce manufacturers seeking a new location into this particular territory.

"There never has been a great state and there never will be a great state that isn't a manufacturing state. Agriculture alone cannot produce sufficient wealth to adequately support a government. Where there is the greatest volume of manufacturing there is not only the greater value of all property but farm land itself is of the greatest value. And not only that but the wealth of the state and the wealth of the county is greatly increased, so that from that greater wealth the government of the state, of the county and of the municipality can raise a greater revenue with a smaller tax rate and out of it they can support good roads, good schools, better health conditions, better government and better living conditions for everybody.

"It used to be that industries congregated in the cities and our business at first was confined to cities, but now we are spreading all over the State of Georgia. We are carrying the power from the mountain streams down to every little town, hamlet and rural district in this State. More and more of them each month are added to the system. We are giving and we will give before we get through the same character and quality of service electrically to the smallest community that we give to the largest city. When we get these places connected up each single customer's switch on our lines, no matter how small the town is in which he is located, will have back of it the entire capacity of this system and the entire capacity of the interconnected systems of the Southeastern Power and Light Company.

"We will make cities of the small towns, so far as their electric service is concerned. We will afford the opportunity of locating industries all over the State, so that the smallest town on the lines has the same chance for the location of factories as the largest city; in fact, the greater advantages of cheaper land, better transportation, better labor conditions, lower taxes and better living conditions. That is the principal reason why the factories moving from New England States and elsewhere into the South are locating in the small towns and rural communities. So we bring not only the factory but we bring the wealth that flows from the location

of the factory to the rural communities. We bring an opportunity for larger governmental revenue through more assessable property and a greater value of all other property at a lower tax rate which brings in time increased educational facilities to the people of the counties, increasing their earning power and their individual opportunities and better living conditions. Thus the principal cause of the exodus from the farms to the cities is removed.

"It is not just money we are working for. You are engaged in an enterprise that means more to your State than any other single enterprise in it. It ought to be a matter of great satisfaction, of great pride that we are engaged in an industry of that character. It gives us that opportunity which none of us could enjoy by ourselves but by joining in this enterprise we get a chance to do something not only for ourselves, but also have the joy and the satisfaction of feeling that we have been a large factor in bringing prosperity to this State in which we have elected to live.

"Our salesmen must live in a separate territory. They are not only salesmen; they are the local representatives of the company. They become citizens and integral parts of their own separate community. They live with their customers in daily contact with them. This is just another proof that our each place of business is our principal place of business. You are the living evidence that your company, different from almost all other businesses, is in reality a citizen of each community in which it does business."

President Arkwright recounted briefly the history of the development of the Georgia Power Company stating:

"The company itself is about the largest organization in one business enterprise in the State of Georgia. It is the largest taxpayer in the whole State, not excepting any of the steam railroad companies. It contributes directly through its own taxes more to the support of local government than any single enterprise in the State. It takes the largest part, therefore, in the education of the people of the State through its own direct contribution. It has invested more money in the State of Georgia in the last 15 years than has been invested there by any single enterprise in its entire history. It went up 15 years ago to the rivers in the mountains of Northwest Georgia that had been running for centuries unutilized and practically valueless; it purchased isolated, separated pieces of land and paid more for them than anybody else. It left the rivers there; it left the land there that it bought. It left the money that it paid for the land there. So when that single transaction was finished it had doubled the wealth of these mountain counties in which its construction operations were undertaken. It brought millions of dollars, largely from out of the State, into the State and with these millions of dollars erected permanent, practical, everlasting structures in the mountains of this State. It left them there and will leave them there forever. The money that it invested in them was likewise expended largely for labor within the State in that neighborhood.

"As an illustration of what this meant to those counties, take the Old Stone Pile District in Rabun county. It paid a certain amount of state and county taxes. When we got there we made in addition to a lake to perform useful service in connection with our work, a beautiful summer mountain resort that attracted to its borders people who built cottages along the banks of the lake. These summer cottages combined now pay ten times the taxes of the entire district before it was developed, and in addition the company pays 60 per cent of the entire taxes of the county. The company's activities brought there good roads, better educational facilities and other improvements, and these benefits are shared by all the people in the county. We take the strength of the mountains, represented by the falling waters, and convert it into useful service that we are sending out over a constantly expanding area all over the State of Georgia.

"We will build up every town and county in the State where our lines run. We will build up our own State not only materially, but we will be bringing also better advantages for education, health and living conditions to the people in the territory where we are performing our work."

\* Could a more inspiring word picture be painted of how progressive power companies are contributing to the upbuilding of the country? They not only create wealth for the country and for themselves but in doing so are aiding others to create wealth. Truly the personnel of such development organizations are missionaries of material progress.

## SECRETARY HOOVER ESTIMATES ECONOMIC LOSS AT \$200,000,000 TO \$400,000,000.

**S**ECRETARY HOOVER, with a conservatism that always exacts in their figures, makes a report to the effect that the economic loss from the Mississippi flood will probably be from \$200,000,000 to \$400,000,000. A careful study of the situation will, we believe, convince every one familiar with the conditions that Mr. Hoover's estimate is extremely conservative, even if it be put at \$400,000,000.

Moreover, a large proportion of the overflowed land cannot this year be put into cultivation. A vast area hitherto given to cotton and sugar must this year remain idle, with a total loss of the crops that would have been raised. Thousands of people will, therefore, be unable to find profitable farm work, and to the economic loss already made will have to be added the loss of unemployment and the loss from uncultivated land, which is just as direct a loss as any other.

Some competent authorities have estimated the loss at from \$500,000,000 to \$1,000,000,000, and this is the staggering total that that section must face, and that the Nation itself must have to meet. It is a national loss caused by a national failure to safeguard against this condition, though warnings have been given for the last 50 years that there would some time inevitably come a great disaster of this character if full protection was not given in advance.

Mr. Hoover's statement, in addition to his estimate of a loss of from \$200,000,000 to \$400,000,000, emphasizes the suffering which has been brought about by the flood; for, he says that his mind is filled with recollections of suffering and misery which he has been forced to see. Every other relief worker has faced the same condition. Discussing that situation, Mr. Hoover says:

"In human terms, the Mississippi River flood of 1927 means 750,000 people flooded, 600,000 driven from their homes or made dependent upon relief."

"The economic loss will probably run from \$200,000,000 to \$400,000,000."

"That 1,500,000 of our countrymen should continue to live in such jeopardy is unthinkable."

"America will spend more than \$30,000,000 in flood relief in one form or another this year, and that is but a small part. Every worker, every farmer, every investor in the United States will bear some part of the shock."

"All engineering plans for flood control of the river must be revised against any possible combination of floods from their tributaries."

"The main thing is a plan, bold and strong enough to deal with the question of finality. For, we must live with the river for thousands of years yet."

"As an engineer, I have a technical interest in this problem; as a citizen, my mind is filled with recollections of suffering and misery I have seen."

"The levee system must be revised and strengthened. Above all, we must have some safety devices to relieve the strain on the levee system in periods of superfloods and make them absolutely sure once and for all."

"Spillways in Louisiana are proposed. There are approximately three spillway locations: The Atchafalaya River; some spot on the Mississippi east bank above New Orleans, opening direct into Lake Pontchartrain; some spot on the Mississippi east bank below New Orleans, approximately where the levee was dynamited at Caernarvon. Reservoirs in the upper reaches of all tributaries are also proposed."

"I believe that we can give security to the people living below the levees. We cannot abolish the levee system. We can strengthen the levees and supplement them strongly with safety devices of one kind or another."

In the meantime, no special session of Congress is called for the purpose of making an appropriation equal to meeting this fearful condition.

Of course, the flooded section will revive, reconstruct, rebuild and go forward with that indomitable energy which has followed

every great disaster in this country, and particularly so after every great disaster in the South.

Sometimes it seems that the greater the disaster the South meets, the greater is the energy and inspiration put forth.

Pre-eminently was that true after the Civil War, and it has been true in every other case since.

When low-priced cotton in the early 90's gave a staggering blow to Southern prosperity, that section rallied much more rapidly than people at large had anticipated. When the failure of Baring Brothers caused a sudden collapse of the real estate boom which was then sweeping over the South and West, the South again met the situation with untiring energy, and once more planted its feet on solid ground. When the discovery of the Mesaba ore region gave what it appeared would be a staggering blow to the iron industry of the South, which was then rushing ahead with tremendous energy, the South halted for a while, but, catching second wind, it began the development of its iron and steel business on a firmer foundation than ever before.

The Mississippi Valley section of the South will suffer, and suffer heavily, but it will go ahead with undaunted courage; and if Congress will do its duty, and do it promptly, that section will soon blossom as the rose and give to the Nation an illustration of abounding prosperity based on the unconquerable spirit of its people.

## WISE ACTION BY THE SOUTHERN BUILDERS SUPPLY ASSOCIATION.

**T**HE Southern Builders Supply Association, with headquarters at New Orleans, but representing the whole South, recently passed the following resolution:

*"Resolved:* By the Executive Committee of the Southern Builders Supply Association, that:

"The flood conditions existing in the Valley of the Mississippi River from which thousands will suffer and millions of property be destroyed, should not again be permitted to occur."

"The Federal Government by taking control not only of the navigable streams of the United States, but of all streams, the waters of which substantially affect navigable streams, can prevent the recurrence of a similar disaster as that from which the Mississippi Valley now suffers, and by conservation and utilization of the headwaters of the greater rivers promote navigation, prevent floods and produce hydro-electric power."

"That H. R. 5025, known as the O'Connor Bill, offers remedies which could be quickly applied and continued until complete protection would exist, and full conservation and adequate utilization of the waters of our Country be secured."

"That we commend to the President and the Congress such bill and urge its passage."

"That we recommend to our members that they each write his respective Senator and Congressman, asking their aid in the passage of said bill."

We take it for granted that many of the members of this organization throughout the entire South have pressed these points upon their Senators and Congressmen. The wider the influence that can be brought to bear upon Congress to appreciate the seriousness of this situation, the sooner will some adequate legislation be passed.

## A RAILROAD OFFICIAL ON THE FLOOD.

**W**. L. FLANERY, Supervisor of Agricultural Development of the Missouri and North Arkansas Railroad, in a letter to the MANUFACTURERS RECORD writes:

"You have my hearty approval and best wishes for the manner in which you are bringing to the attention of the public the seriousness of the great flood the South has just experienced. The folks who have not seen cannot realize the awful destruction of property and the suffering of humanity. I have just spent two weeks in rehabilitation work in the flooded section of Southern Arkansas. May we never experience another such calamity."

### BUYING AMERICAN-MADE GOODS.

**T**HE Mayor of Worcester, Mass. is to be heartily commended for his action in refusing to accept an offer of German-made pipe for use in that city, though the price was somewhat lower than the bids of American companies. The contract was awarded to the Warren Pipe and Foundry Co. of Phillipsburg, N. J., for \$163,392.

American municipalities and states should remember that American prosperity depends upon the full employment of American workers. If for a small saving or if, indeed, for a considerable saving, foreign products are permitted to take the place of American products in municipal or public service work, a distinct injury will be done to American industry and the small saving effected by buying foreign stuff will be far more than offset through industrial workers being thrown out of employment.

And this reminds us that recently the Gillette Safety Razor Company spread broadcast and placed in drug stores and everywhere a conspicuous placard urging people to buy Gillette razor blades "made of Swedish steel." The prosperity of the Gillette Company is mainly due to the enormous sales made at high prices for razors to the American people. That company is now selling at from about 50 cents to \$1.00 razors for which they charged \$5 to \$10 prior to the expiration of their patents; and reaping enormous profits out of the American people, they are now buying Swedish steel for making their razor blades. Ordinary business sense would seem to indicate that the men who are responsible for the management of the Gillette Company, and for every other American company, should as far as possible buy of American make the things needed in the production of their goods.

Some weeks ago Mr. Trudo, a Daytona Beach barber, told the writer that it was difficult, and almost impossible, to buy barber supplies made in America as the barber supply houses were handling almost exclusively German-made goods which he said were of a very inferior character as compared with American barber supplies. In this connection he told the following interesting story: He could not find among these German-made goods files of the quality he desired for sharpening scissors and so he wrote to the Nicholson File Company of Providence, R. I., and found they made exactly the kind of files that he and other barbers wanted. He was asked how he had heard of the Nicholson File Company. His reply was that he saw their advertisement in the MANUFACTURERS RECORD, and then in discussing the subject he said he not only subscribed to the MANUFACTURERS RECORD but annually spent about \$250 in subscribing for newspapers and magazines mainly for the use of his own family.

How many substantial, well-informed business men spend that much money in the course of a year for newspapers and magazines in order to keep well informed about what is going on in the world and to enable their families to know these things? Mr. Trudo is an Italian but an enthusiastic believer in this country and far prefers American-made products to German-made stuff and regrets that the barber supply people to so large an extent handle German-made goods.

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### SOME CHURCHES AND POLITICAL METHODS.

"**M**Y conviction grows," writes a leading minister to the MANUFACTURERS RECORD, "that the organized church has fallen into grave error in attempting to reform the world. I do not believe that was Christ's method. His method was to regenerate individuals, and by His Spirit guide and inspire them to do their duty in the various relationships of life. This would lead to the reform of the world. Today the

churches of several denominations are linked up with certain political methods for removing evils. A great minority believes these methods faulty. A vast body of people have come to think that this is what the churches are for, and have no comprehension of their primary duty. The failure of the methods referred to at any point in time occasions a great clamor against the churches, and this terribly handicaps us in the work for which Christ established churches."

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### CITIES THAT HAVE EXCEEDED THEIR RED CROSS QUOTA.

**T**HE MANUFACTURERS RECORD continues to publish information received from various cities in the South which in their contributions to the Red Cross have exceeded the quota asked of them. In a previous issue we published quite a list, and here are two more:

Miss Gertrude Girardeau, executive secretary, Galveston (Texas) Chapter, American Red Cross, writes:

"Our attention has been called to the fact that you are requesting to be informed of the various cities that have exceeded their quota for contributions to the Mississippi flood relief fund. You may add the city of Galveston to that list. Our quota for the fund was set by National Red Cross headquarters at \$1000 and we have to date received \$18,853.04. Eight hundred seventy-one dollars and 26 cents of this amount has been contributed by the mainland towns in Galveston county, the remainder having been donated by the citizens of the city of Galveston.

"We did not set the quota of \$1000 as our goal, but were determined to secure as much as the people were willing to give to help to alleviate the suffering caused by this greatest disaster in the history of our country. Contributions continue to come in daily and it is possible that we may reach the \$19,000 mark before this fund is closed."

Mrs. Lucile A. Howell, secretary, Chamber of Commerce, Morristown, Tenn.:

"Morristown's quota on the Red Cross relief fund for Mississippi flood sufferers was \$750 and over \$1000 has already been forwarded to headquarters, with daily contributions still coming in."

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### Palm Beach County Quadruples Its Quota.

West Palm Beach, Fla.—Mindful of the thousands of dollars contributed by residents of the Mississippi Valley when Florida was distressed by storms last fall, the residents of Palm Beach county have quadrupled their quota of \$3000 asked by the Red Cross for its flood relief fund.

Review of the extensive and intensive drive conducted here by the Palm Beach county chapter of the Red Cross, under the direction of Howard Selby, chairman of the chapter, and J. B. McDonald, chairman of the special drive committee, reveals that this county turned over to the national headquarters \$9351.55 in cash, and three carloads of fresh Everglades farm truck worth \$1000 a car, valued conservatively.

The original quota for the county was set at \$3000. Immediately a great county-wide organization was perfected and the \$3000 was raised. Then the chapter wired to national headquarters stating that it voluntarily was doubling its quota. By the time the Red Cross issued its second national call this sum had been raised and the chapter had gone on toward tripling the quota. Meanwhile, through the donations of Everglades farmers in and near Belle Glade, Chosen, Pahokee, South Bay and Canal Point, the three cars of truck were shipped directly to Memphis. In this work the Florida East Coast Railway hauled the cars free of charge, and members of Palm Beach Post No. 12 American Legion and of the Boy Scouts aided in loading them.

## Congressmen and Others Discuss Flood Situation and Need of Immediate Help.

THE cover-page editorial of last week, entitled "An Appeal to President Coolidge," and the editorial headed "\$600,000 Surplus and Not a Dollar of It Advocated by Washington Officials for Flood Sufferers" were reprinted on a single sheet and, accompanied by a personal letter, were sent to every member of Congress and the Cabinet, to about 700 chambers of commerce throughout the country, to an equal number of newspapers and to about 700 or 800 of the leading business and financial men of the country, including railroad presidents. First in one way and then in another, the MANUFACTURERS RECORD is thus trying to bring before the entire country the seriousness of the flood situation and the necessity of some action by Congress worthy of the occasion and of the vast wealth of this country.

The letter sent to every Congressman was as follows:

"For the sake of 600,000 or more sufferers from the flood, for the sake of saving lives of thousands who without Federal help will inevitably die from exposure, and the suffering and disease which are already endangering many, may I not ask that you will read the enclosed articles from the MANUFACTURERS RECORD, sent out in advance of its publication in our issue of June 16?

"I feel I have a moral right in this call of humanity to ask just enough of your time to read these articles, with the hope that this situation will so touch your heart that you will help to bring about a special session of Congress immediately, not for considering or deciding on plans for permanent river work, but for the appropriation of a sum sufficiently large to meet this, the greatest disaster our country has ever faced.

"In these editorials I have expressed the reasons why I am sure that no Congressman in a special session would undertake to make political capital for himself or his party, but that everyone would act promptly upon this one great issue, leaving the whole political situation for other occasions.

"I shall not undertake in this letter to set forth any reasons or arguments for this appeal to you, except to ask you simply to read what I have put in type."

The letters sent to others were phrased a little differently, but all were intended to awaken interest in a study of the facts presented. No reply was asked to any of these letters, but many who received them have written, expressing their views on the subject under discussion. Some of the letters from Congressmen who have sought to induce the President to call a special session promptly, for the purpose of making a liberal appropriation for immediate rehabilitation of the flood sufferers, are very strong in their presentation. Indeed, we would hesitate to publish some of these comments if this was not a matter which rises far above politics or the individual views of this politician or of that, or of questions pertaining to party welfare. This is a question involving the lives of tens of thousands of people and the restoration of at least some of the tremendous losses that have been made by this unprecedented disaster. The moral responsibility which rests upon the country, we feel, justifies us, therefore, in publishing even the rather sharp criticisms which some Congressmen have made, because of their official position, but other criticisms are withheld.

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### Hon. Clarence F. Lea of California Favors Special Session.

Congressman Lea writes:

"On account of my absence from the State I did not receive your letter of May 10 until my return home. I thought the wide extent of the Mississippi disaster justified calling a special session of Congress to provide an immediate relief and give early encouragement to the victims of the flood as well as do the preliminary things looking toward the ultimate adoption of a permanent plan of flood control."

### Congressman Aswell Directly Charges President Coolidge With Not Calling Special Session Because of Politics.

House of Representatives.  
James B. Aswell, M. C.,  
Eighth District, Louisiana.

Washington, D. C., June 14.

*Editor Manufacturers Record:*

I have your letter of June 13, the finest exposition yet expressed on this tragedy, and I assure you of my hearty approval of your patriotic position on the urgent need of an immediate extra session of the Congress to appropriate the money necessary to rebuild the destroyed utilities in the flooded area of the Mississippi Valley.

My stricken people appreciate Hoover and the American Red Cross, but they don't want charity. They want honest work in rebuilding when it is too late for crops this year.

You are the only great spokesman in America that has the courage and the correct angle on this tragedy in our life involving our whole country.

The President fears the specter of Vare and Smith only. He frankly said as much to me yesterday.

Your George Garner\* was the sanest reporter at the Chicago flood convention and his words are very true. The flooded area is indebted to his courage, wisdom and frank report of the case at Chicago.

Please see inclosed copy of letter to one of my trusted friends which you may use if you think worthy. I am with you to the limit.

J. B. ASWELL.

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\*Mr. Garner, as a staff correspondent of the MANUFACTURERS RECORD, simply showed how politics dominated the convention, and how everything had been cut and dried in advance to prevent any resolution asking for a special session, and we believe no other paper gave these inside facts.

The letter, of which Mr. Aswell sends us a copy for publication, was as follows:

"June 13.

"Dear Friend:

"If you have not already done so, get a copy of the June 9 MANUFACTURERS RECORD and read the story beginning on page 59.

"I have just returned from a call upon President Coolidge at the White House, making a final dramatic appeal to him for an extra session for appropriations sufficient to meet the needs of our stricken people in rehabilitation. He was deeply interested and actually smiled two or three times. When I told him I could get an agreement in advance for Vare and Smith to stay at home for the extra session and that no controverted questions would be brought up he calmly looked through the window at his 'economical lawn mowers' blandly smiling and said, 'You are an optimist if you think you can make that agreement; I myself would not try it.'

"Promptly I replied, 'If you will approve it in advance, I will get such an agreement.'

"He then said, 'I am deeply interested in your visit and remarks and I shall keep all your points in mind on my vacation, but I cannot give you any assurance right now.'

"The whole difficulty is that he fears that in calling an extra session Smith and Vare would not be seated and the Democrats in the special session would control the Senate.

"He was finely spirited and cordial and even thanked me for my visit, but that's that.

"Sincerely,

"(Signed) J. B. ASWELL."

**Governor Brewster of Maine Seeking to Arouse Consciousness of the Country to Greatness of Flood Disaster.**

[Telegram to Manufacturers Record.]

Augusta, Maine, June 15.

As chairman of the executive committee of the Conference of Governors of the United States I have arranged that the question of flood relief and protection shall receive primary consideration at the conference of Governors which is to open on Mackinac Island, Michigan, on July 25. This seems to offer a very appropriate forum for bringing to the consciousness of the people in all the States the problem connected both with immediate relief and proper provision for protection against a recurrence of disaster of this sort. I call this to your attention in connection with your communication to me of June 13 in relation to the problem with which America is now faced. The slow sweep of this disaster leaves America almost unconscious of what has come to pass.

Ralph O. Brewster.

This announcement from Governor Brewster will be welcomed, we are sure, by the country at large and especially by the people of the South. In taking this position of making the primary consideration of the Conference of Governors matters connected with relief, present and permanent, for the flood situation, Governor Brewster is rendering a distinct service to the entire nation.

The magnitude of this disaster is practically impossible for anyone who has not been in constant touch with the whole situation to comprehend. It deserves the closest study by the people of the whole country.

**Senator Bruce Believes That a Special Session Should Be Called to Meet This Frightful Flood Condition.**

Hon. William Cabell Bruce, United States Senator from Maryland, writes:

"I think, and I have thought from the beginning, that Congress should be called together by the President in extra session for the purpose of appropriating a sufficient sum of money to meet the demands created by the frightful floods which have involved parts of the Mississippi Valley in utter ruin. The crisis is one to which a call for private subscriptions for the relief of the flood sufferers is totally unequal, and that fact is so manifest as to check the measure of private benevolence which would otherwise be exhibited by generous and wealthy citizens of the United States."

**Give Outright and Not Burden These People With Debts They Could Never Pay.**

Texas Creosoting Company.

Orange, Texas, June 7.

*Editor Manufacturers Record:*

I have two observations to make:

1. It is proposed to advance money in the form of loans to those who have sustained flood losses. A large percentage of those damaged are already struggling under loans and the more equitable way would be to give outright, without the necessity of repayment, amounts equal to the estimated losses. Those who have suffered property loss were not to blame; the States of Louisiana, Mississippi, Arkansas, Missouri and Tennessee were not to blame, but the blame, if it is possible to fix it, should be on the country as a whole.

2. It is possible to build levees with interlocking wooden sheet piles which will not be subject to scouring, seepage

or erosion. Many examples of this type are to be found in the vicinity of New Orleans. This construction provides a watertight wall to such depth as may be necessary. The top of the sheet piles can be extended above the earthen levee for several feet, thus adding to the effective height. This type of construction is comparatively inexpensive but very effective.

R. S. MANLEY.

**Congressman Oldfield Predicts Many Deaths From Disease and Starvation Because a Special Session Has Not Been Called.**

Hon. William A. Oldfield of Arkansas writes:

"Your favor of June 13, enclosing advanced proof from the MANUFACTURERS RECORD of June 16, has just been received and appreciated.

"I certainly am greatly interested in what you say in this document. I have called on the President two or three times recently, urging him to convene Congress in an extra session for the purpose of taking care of the situation in the Mississippi Valley. My last communication was about two weeks ago when I sent the President a petition signed by forty-odd members of Congress, most of whom represent districts in the Mississippi Valley, urging an extra session, setting forth in my petition that only two subjects be considered during the special session. First, the passage of the urgent deficiency bill, which failed on account of the Senate filibuster; and the flood situation in the Mississippi Valley. I also told the President in my letter that he would have no trouble in securing a gentleman's agreement from the leaders of both parties from the various sections of the country that nothing else be considered during the special session if he should call it.

"The President has refused absolutely to reconvene Congress in order to help the six or seven hundred thousand homeless people in the valley. Really I do not know what these homeless people are going to do this year. Many of them, of course, will die of disease, and a great many will probably starve before Congress convenes in December. I set forth in my recent letter the fact that the average or ordinary overflow with the great gaps in the levees and all of them weakened by the strain of the recent high flood, will cause as much damage or probably more than the big April overflow. Since I wrote the President this has actually happened in Arkansas and other States in the valley. We usually have a January, June and August rise. If we should have an August rise of the average height what crops the farmers have been able to plant and cultivate will be swept away. Personally I appreciate greatly the effort the MANUFACTURERS RECORD has made towards the calling by the President of Congress in extra session."

**Congressman Cochran Believes the Whole Treasury Surplus Should Be Held for Flood Rehabilitation and Permanent Work.**

Hon. John J. Cochran of Missouri writes:

"You are taking exactly the same view that I took many weeks ago. In my telegram to the President and also in statements to the newspapers, I not only advocated a special session of Congress, but also proposed that the present surplus should be used, not only in connection with immediate relief and rehabilitation, but to be set aside to be used when a final policy had been agreed upon to prevent a recurrence of the present disaster.

"I hope the business element will unanimously demand an extra session of Congress. I am sure if you will make a survey among the business interests of St. Louis and Chicago, you will find they are already feeling the loss of business in the South, and in my opinion it will be 18 months before these unfortunate people will have any money to spend for clothes or necessary supplies, as they will have no crops before that time that can be turned into money."

**Congressman Burton Feels That Situation Demands Most Generous Consideration by Congress.**

Hon. Theodore E. Burton of Ohio: "I have your letter urging an immediate session of Congress for the benefit of the flood sufferers. I do not feel that the time is ripe for an extra session, though I should favor calling Congress earlier than the regular date in December. I feel that the situation is such as to call for the most generous consideration by Congress, though it must be said that in 1913, when portions of Ohio were overwhelmed by floods, the Committee on Appropriations of the House refused to make any provision for relief."

[According to Congressional records, Congress appropriated on October 22, 1913, for Ohio flood sufferers and Indiana and on the Ohio and Mississippi rivers for reimbursement to certain naval appropriations for relief \$130,940.38, and on the same date for Mississippi and Ohio valleys, Alabama and Nebraska relief of sufferers from floods, tornadoes and conflagrations, department appropriations of \$654,448.49. Going back to earlier years we find that on February 12, 1884, Congress appropriated \$300,000 for Ohio river flood sufferers and on February 15 of the same year an additional \$200,000. On February 25, 1919, Congress appropriated \$100,000,000 for European sufferers, "to be reimbursed so far as possible," and on March 30, 1920, Congress authorized the purchase of 5,000,000 barrels of flour for European sufferers and on December 22, 1921, \$20,000,000 for Russian sufferers, and on January 20, 1922, \$4,000,000 for medicine and supplies for Russian sufferers—Editor MANUFACTURERS RECORD.]

In reply to Mr. Burton's letter, our Washington correspondent wires as follows:

"Have gone over all flood relief measures introduced in Congress in 1913. Find that A. O. Stanley, then member of the House and later Senator, introduced House Joint Resolution 389 in April, 1913, to appropriate \$1,000,000 to supply tents, provisions and other relief to Ohio River flood sufferers. The Resolution was referred to the House appropriations committee, which took no action.

"What Mr. Burton perhaps has in mind is the bill he introduced for and at request of Senator Pomerene of Ohio, to appropriate \$2,000,000 to immediately reimburse the War Department for funds it had spent on relief of Ohio River flood sufferers, with provisions that remainder go to Red Cross for relief of flood sufferers. This bill did not pass.

"Congress included an item of \$654,448.49 in the Urgent Deficiency bill, passed October 22, 1913, to reimburse the War Department for money spent relieving flood sufferers.

"My recollection is that there was no urgent pressure for passage of Stanley or Burton bills, because it was generally realized that the War Department and the Red Cross had done everything necessary and that Dayton was proclaiming that it could help itself."

**One Way in Which Congress Could Help.**

Hon. John E. Martineau, Governor of Arkansas:

"I am in receipt of your favor of recent date enclosing copies of letters which you are sending out in an effort to create sentiment in favor of a special session of Congress to enact legislation on the subject of flood control in the Mississippi Valley.

"You may be assured that this splendid cooperation upon your part is sincerely appreciated by the people in the South.

"From information which I gathered recently in Chicago and in Washington, it is my opinion that we can hardly hope for a special session to convene earlier than October 1. For this reason, I am directing my efforts toward securing relief to flood sufferers in the form of the exemption of their lands from the burden of levee taxes. Inasmuch as this is, and always should have been, a national obligation, I am hopeful that we will be successful in inducing the Government to accept this responsibility. I believe that relief of this character will do more than anything else to bring about quick and effective rehabilitation of the affected areas. The amount of outstanding levee bonds is not great, when considered as a Federal debt, but is beyond the capacity of the districts which have suffered from the recent floods."

**The Splendid Courage of the Flood Sufferers.**

By J. S. LOVE, Superintendent of Banks, Jackson, Miss.

As you are well aware, the recent break on the Mississippi side of the Mississippi River flooded 750,000 acres of the most fertile soil in the world; rendered homeless thousands of people, and destroyed millions of dollars of property. The Red Cross and the Mississippi National Guard have done wonderful work toward restoring order, taking care of those people, feeding and clothing them during the critical period. The Red Cross has followed this work in making wonderful provision for the rehabilitation of the people and their restoration, as near as possible, to some extent at least, in keeping with their status before the flood. Just how far the Red Cross will go, of course, depends on the amount of money available for that purpose. Most of the people have gone back home, and camps have been closed. The Red Cross continues in their work, feeding both people and work stock, furnishing planting seed, and other necessities of life, and in a small measure are purchasing mules, some household goods and farming implements. If they can continue this work for the next 60 days, it will place many of the farmers where the Mississippi Rehabilitation Corporation can take them up, because they then will furnish some basis of credit on which a loan can be made. The Mississippi Rehabilitation Corporation, capitalized at \$1,000,000, with \$500,000 subscribed, is just beginning to function. Officers and directors are composed of leading bankers and business men of the State. It necessarily has to be careful in making loans, for the reason the amount of money they can lend depends upon rediscount facilities furnished by Federal Intermediate Bank. Therefore, the loans must be made according to the set-up or rules of Federal Intermediate banks. This bank has promised to rediscount the corporation's paper five times the amount of its capital, thereby making available \$2,500,000 credit for the farmers of this district. This will be of great assistance, and it may not be necessary to use all of these funds, for the reason the banks in that immediate territory are in very good financial condition.

The greatest need, as I see it, at this time is funds to be loaned to those people who are not a sound credit risk, on account of the conditions. A fund of something like \$500,000 will go a long way and do a wonderful good, and would help bridge the place where the Red Cross discontinues as a charitable organization, and where the Rehabilitation Corporation takes up as a business organization. If we are able to bridge over that 30 or 60 days, probably those people who today are not a reasonable credit risk, 60 days from now will be, and our corporation is trying to find some way to assist that particular class of farmers.

This is not a local problem; it is a national problem; it is not a matter that just a few Southern States are interested in. While it is true they are the ones that are suffering, it is a matter in which the entire country should be interested, and should join hands in rendering financial assistance to rehabilitate these unfortunate people, and through their Congressmen and Senators have their Government take over the Mississippi River problem and solve it once and for all.

It would be most interesting if you could go with me to this flooded area, and know first hand the wonderful courage and fortitude that the people have displayed, and to see the hopefulness and optimism with which they are looking forward to the future, and the determination on their part to make good, even under this terrible handicap. I do not think I have ever seen such splendid characteristics shown by any section of the South as are being shown by inhabitants of the flooded area of Mississippi in this, probably the greatest disaster that has ever overtaken the South, save only the Civil War.

The interest the MANUFACTURERS RECORD has taken in this

great disaster, and the splendid assistance it has rendered has won it additional friends, and we are all under renewed obligation for your services in this respect. Now if the people of the United States could realize the extent of this disaster, and if the business men throughout the country would, through the National Chamber of Commerce, supplement capital stock, or match the capital stock of the three rehabilitation corporations dollar for dollar, it would go a long way toward restoring confidence, and furnishing means by which these unfortunate people could again be able to get on their feet. I trust that through your columns you will emphasize the importance of this work and keep the issue alive before the people, and probably through this means and other such means the suggestion made by Mr. Hoover, that this additional capital be furnished by capitalists outside of the district, will be carried out.

#### George Foster Peabody Emphasizes Duty of Congress to Assume All Loss.

In the course of a personal letter, George Foster Peabody of New York discussed the necessity for a special session of Congress to be held immediately, and gives us the privilege of using the following:

"I still think that the country would have been the greater sufferer if New Orleans had been flooded, and that deep sympathy should be directed to an assumption by the Congress for the whole country of all the expense of rehabilitating the flooded districts. I am inclined to think that it is a legitimate extension of the claim of these districts that even the rehabilitation of churches, as in France, should be included as a proper expenditure by the United States. It was their neglect of the century's warnings to provide against such disasters that made every interest of every character in these States suffer as they have suffered.

"Another reason for this is that the long continued appeal by President Coolidge to the charity of the country, an appeal to which remarkable response has been made, has lessened that fund so greatly that it will be far more difficult for church and other organizations to secure even moderate response to their righteous appeal for restoration of the relief equipment of those districts."

#### Why the Nation Must Act.

Mr. Adam Frick writing from Portsmouth, Ohio, says:

"The subject-matter embraced in your letter is of interest because it involves a duty to humanity.

"That the Federal Government must come to the aid of every section where floods have become frequent since deforestation and drainage of vast areas has been established is self-evident, and the day should not be delayed when the nation's tremendous wealth should share with those who are helpless and in need, especially so since wealth has been increased by denuding the forest and this wealth added to materially by drainage, increasing the hazard and making more uncertain the success of those who must depend upon their lands for sustenance and the requirements of present-day standards for family existence.

"Our neighboring State of Indiana, and Illinois as well, has suffered tremendously during the past three years from continued floods and these people are no less in need of immediate attention than those of the States further toward the sea. It is my hope that sufficient attention can be directed to this area also and that there will follow such appropriations as may be necessary to deepen, widen and straighten these streams so that the excess amount of water coming in the wake of a usual rain may be taken care of by these waterways in full proportion to the excess flowing into these streams under the changed conditions to which reference has been made. It is imperative that this be done in due time, that the few remaining on the farms may be retained there and to encourage those who follow to continue this necessary endeavor that the nations may be adequately provided for in food and clothing."

#### A Minister's View of the Flood Situation in One County.

Greenville, Miss., June 8.

*Editor Manufacturers Record:*

I appreciate your interest in the appeal which I made through the Southern Churchman and other church papers for the relief of flood sufferers in this district. I realize that my estimations must have seemed incredible because they indicated almost total ruin of the population of our county and district; therefore, I will be glad to explain this statement to you.

Washington County is normally very prosperous. Its gross income from its various resources and industries amounts to something more than \$14,000,000 a year. Its bank resources probably reach something like \$6,000,000. In 1921 the collapse in value of cotton and of lands caused such heavy losses to our planters that virtually all of the forming lands in the county were placed under mortgage of from \$15 to \$40 an acre. From that date there was a succession of crop failures until 1925. The crop of that year, while heavy, suffered severely from a long storm period and lost one-half its value. In 1926 the cotton crop in the United States was largest ever known, but comparatively small in Washington County. At the beginning of 1927 our planters had to borrow upon their lands and chattels in order to make a crop. A portion of this money was expended in preparing for the crop. All of that has been lost and in the flood there was such a destruction of livestock, farm buildings and other property that the borrowing capacity of the planter was entirely wiped out. The banks for the most part refused to continue the loan contracts already made, as I have been given to understand, so that when the flood swept over the country there was hardly a single planter who could continue operations without assistance which would virtually amount to charity.

The population of this county consists of about 42,000 negroes and 10,000 to 12,000 white people. With the exception of planters, bankers, merchants and professional men the white population consists of employes, most of whom were thrown out of work so that the destruction of crops and of credit, the cutting of lines of communication, the closing up of business houses, the complete prostration of all business and industry, virtually left the entire population dependent upon charity. As an emergency condition our planters have asked the gift of seed to plant their fields. Many have asked the gift of work stock so that their lands can be cultivated. Many have asked the rebuilding of farm sheds. In fact, I cannot at this moment think of anyone except Government, State, county and city employes, together with the chief officers in our banks who are in receipt of incomes sufficient to support life. Those who are not actually objects of charity are living on borrowed money. The exceptions to this general statement are so few as to merit no especial mention.

I can refer you to any of our bankers here for a verification in substance of this statement and they will also tell you that there is no immediate prospect of any improvement of these conditions. Mr. William Harris, who is in charge of the work of the Red Cross in this county, assures me that unless the feeding of the people and other means of sustentation are continued indefinitely by the Red Cross acute suffering and want will result.

REV. PHILIP DAVIDSON,  
Rector, St. James Church.

#### Congressman Bloom Pledges to Do Anything in His Power to Help.

Hon. Sol Bloom of New York writes:

"I am in hearty accord in everything that you say in your articles and you can count on me to do everything that possibly can be done to help your ideas along."

## Congress Responsible for Flood Disaster.

By WALTER PARKER, Executive Vice-President, National Flood Commission.

Could public opinion be translated into prompt action, the Federal Government would have officially admitted its responsibility for the orderly conduct of interstate drainage, and have put all its machinery to work not only to repair broken levees, but also to solve the problem of floods permanently and adequately, to the end that 700,000 drowned out people might know that rehabilitation this time would not have to be gone through with again a few years hence.

But, the Government says it must wait on Congress, Congress must wait on deliberation and the discussion of plans and projects. Meanwhile the most fertile region in North America must do the best it can under most trying circumstances.

With levees open at many places, the second flood now coming down the Mississippi complicates the situation no little.

Every local levee board from Cairo to the Gulf had strained its resources, before the 1927 flood, in order to build its levees as near Mississippi River Commission provisional standard grade and cross section as possible. During the flood, in an attempt to hold the levee lines, each levee board went the absolute limit in employing men and buying material. After the flood, the whole Valley knows that, even had the levees all held, the water would have gone over the top of them.

Confidence in levees-only has been destroyed, the levee boards have spent their revenues for years to come, the taxpayers have been drowned out and their earning power has been suspended. No adequate plan for rehabilitation has yet been presented, and no plan can be adequate unless accompanied by dependable assurance that the Federal Government will, as soon as possible, put an end to the flood menace.

"How long will it take Congress to act?" is a question uppermost in the minds of everybody from Cairo to the Gulf.

The National Flood Prevention and River Regulation Commission, a volunteer organization, has made a comprehensive scientific study of the problem, and long ago presented a bill (H. R. 5025, the Newlands-O'Connor Flood Prevention and River Regulation bill). That bill sets up a national policy and an equipped Federal agency to develop a broad and comprehensive plan for flood control and the utilization in place of waste of water. The bill has been pending for years.

The Chicago flood control conference has consolidated public opinion in favor of a national policy and a comprehensive plan.

America's spirit of fair play demands safety for the lowlands from the drainage of the uplands, and America's business requires that the floods be controlled, an end be put to flood disasters, and new buying power be developed through the use in place of waste of water.

The people are hopeful; but, the story is an old story.

In 1817, spillways for the lower reaches of the Mississippi were advocated. After the flood of 1847, public meetings were held and Federal action was demanded. An investigation was made and spillways and source stream control, in addition to levees, were advised.

After a series of disastrous floods, Congress in 1879 created the Mississippi River Commission, and instructed it to bring forward a plan in which Congress and the Valley could have confidence. The Mississippi River Commission presented a "levees only" plan, under which the lowland natural reservoirs were taken away from the river, and the natural out-

lets above the passes were closed. The river required those reservoirs and outlets and took them back in 1927.

Many Congressional committee hearings on flood control were held between 1912 and 1927, and much data was presented. One group, which then had faith in the promise that completed levee lines would protect the Valley, advocated "levees only." Another group advocated levees plus spillways, plus source stream control, and to that end urged Congress to adopt a national waterways policy and to create an agency capable of visualizing the whole interrelated problem and to present a broad and comprehensive plan for flood control and for the use in place of waste of water.

The "levees only" scheme conformed to the politics of the Federal bureaus and the local levee boards. The comprehensive scheme necessitated coordination of the work of the Federal bureaus and cooperation between the Government, the States, localities and business enterprise. A heated and long drawn out fight was the result.

In 1917, the "levees only" people found they could not get Federal appropriations for levees unless they would agree to vote for comprehensive legislation. Under this agreement, \$10,000,000 of Federal money for levee building was voted for five years, and a bill, known as Section 18 of the 1917 Rivers and Harbors Act, was passed. Section 18 set up a national policy and created an equipped agency for the making of a comprehensive plan. The Nation was at war, and the late Senator Francis G. Newlands of Nevada, who led the fight for Section 18, died. In 1919, Congress repealed Section 18 of 1917.

The disastrous flood of 1922 revived the fight for comprehensive legislation. The disaster of 1927 has aroused the whole Nation.

Congress is not made up of economists, or of flood control experts, or of engineers, or of any other kind of experts, except expert politicians. The Government has no waterways policy worthy the name and no agency equipped to plan comprehensively for flood control. Consequently, Congressional committees soon get lost in the ramifications of a problem which begins where the raindrops fall and does not end until the sea is reached, and which involves an as yet undetermined policy as to what we are to do with flood waters—waste them or use them.

Hence, the necessity for the enactment and application of just such legislation as was embodied in Section 18 of the 1917 Rivers and Harbors bill.

### Senator Caraway Heartily Approves Our Effort for a Special Session.

Senator Caraway of Arkansas, writes: "I have followed with approval your effort to have the President convene Congress in extraordinary session to alleviate, as far as may be, the sufferings of the people living in the overflowed area. I am pleased to say that in a public speech in Memphis six weeks ago I was happy to advance some of the reasons why he should do so that you so ably advanced in the RECORD."

### "Is Economy Everything Against Human Life?"

Hon. George W. Lindsay of New York replying to a letter of the MANUFACTURERS RECORD writes:

"I have repeatedly appealed to the President for a special session. Your point of a tremendous surplus and no appropriation for relief invites serious consideration.

"Is 'economy' everything?

"Is 'dollar saving' greater than human needs?"

June 23, 1927

## A Type of Levee Construction Employed at Arabi, Louisiana, Below New Orleans.

By CHARLES M. KERR, Field Engineer, American Wood-Preservers' Association, Chicago.

I have before me the May 19 issue of the MANUFACTURERS RECORD, and I have read with much interest the accounts therein contained of conditions occasioned by what will probably go down in history as the greatest and most disastrous flood of the Mississippi Valley. I am a resident of New Orleans and can readily appreciate the tragedy of this visitation, especially as it affects the State of Louisiana.

Your editorial in that issue is correct in every detail; the progress of the South will not be retarded. On the other hand, much good can be expected from this disaster, as the nation has been aroused to the fact that the protection of the lowlands of the Mississippi Valley is a Government obligation, to be met with Government funds. The Government agency responsible for the installation of a system of protection—the Mississippi River Commission—is capable of meeting the situation efficiently and promptly, but lack of ample appropriations has limited the effective scope of its work. The problem of effecting a practical and successful line of defense has been solved by the engineers comprising this commission, and

used for the construction of the embankment if the cost of the work is to be kept within reasonable limits. The importation of outside material for such construction, especially when the vast amount of work to be done is considered, would make the carrying out of a practical and successful plan of operation prohibitive from a standpoint of expense. The natural soil must, therefore, be utilized as a general proposition.

It is a recognized fact that earth will not combine success-



NEWLY DRIVEN BULKHEAD IN CENTER.

with the unlimited financial support of the Federal Government unstintingly placed at their command, a repetition of this year's situation will be impossible.

On page 65 of that same issue of the MANUFACTURERS RECORD I noticed an article by Mr. Moreno suggesting a core-wall for the future construction of levees. This idea, somewhat modified, would prove effective in instances where soil conditions are such that seepage cannot be prevented by the standard method of levee construction. It is questionable whether a core of any kind should be located within the section of the main levee.

The natural earth existing at the site of the levee has to be



BARGE-HAULED EARTH IS PLACED BY DRAGLINE IN REAR OF BULKHEAD.

fully with any other material, and the most efficient form of embankment where the natural soil is employed is one where no other material is used in the main section of the work. The introduction of a core of any nature in the body of the fill may be more of a detriment than a benefit, as it may tend to separate the fill into two or three sections, acting independently of each other, and thereby offering less resistance to pressure than a solid fill of homogeneous material acting as one unit.

A well constructed earth levee, of sufficient height and section, is well able to withstand the pressure of the flood waters. The excessive number of crevasses, especially along the lower river, was caused by the overtopping of the levees by the unprecedented heights to which the river rose. Therefore, this condition can be remedied by raising the grade of the levees. During periods of high water, however, the seepage of water through the levee is always a source of danger and should be corrected by the introduction of some type of construction impervious to water and outside of the main levee.

An example of the successful treatment of a situation of



VIEW OF LEVEE BEFORE EARTH WAS PLACED BEHIND NEW BULKHEAD.

In left background is assembly plant of Ford Motor Company and beyond that the American Sugar Refinery.



FENDER PILES AND WALLS IN PLACE READY FOR SHEET PILING.

this nature, where excessive seepage existed during periods of flood, can be found just below the city of New Orleans, at the town of Arabi. Here the old levee was of insufficient grade, and the seepage water was excessive to such extent that the street railway tracks in the rear of the levee were



PILE DRIVER AT WORK.

maintained with much difficulty. Important improvements immediately in the rear of the levee made the cost of rebuilding it on a new location prohibitive. The situation was effectively cured, however, by the simple expedient of building a water-tight bulkhead of interlocking wood sheet piling some twenty feet to the river side toe of the existing levee, and filling behind this bulkhead with earth. In the course of this work the crown of the levee was raised, and the cross section

of the fill increased materially. Enclosed are some views of this location, illustrating the method of construction.

A bulkhead, made up of interlocking wood sheet piling, treated with coal-tar creosote under pressure, with a final retention of ten pounds of oil per cubic foot of timber, was driven at about the low water limits of the stream. This bulkhead penetrated into the clay soil for a distance of about



COMPLETED INTERLOCKING BULKHEAD OF CREOSOTED WOOD SHEET PILES.

ten feet. Earth was then placed behind the bulkhead, and the levee was correspondingly increased in grade and section.

This type of bulkhead, similar to successfully installed projects elsewhere, driven well into the soil to a depth sufficient to penetrate any porous stratas through which seepage could occur, will permit of the construction of a water-tight



PLACING THE INTERLOCKING CREOSOTED WOOD SHEET PILING.

levee which, if of sufficient section, will more effectively afford protection than any other method of construction economically possible.

A bulkhead constructed of creosoted timber is particularly

suit for this kind of work, as it is light in weight and permanent, and the flexibility and elasticity of the wood permit the wall to adjust itself to the constant movement of earth fills which are periodically subjected to saturation.

This plan is submitted for your consideration. It is a practical and economical method of overcoming adverse physical conditions, and the suggestions offered may be of benefit to readers of the MANUFACTURERS RECORD.

**Unstinted Credit Has Been Given by the Manufacturers Record From Time to Time for the Splendid Work Already Done, But We Are Glad to Have Mr. Evans' Views on the Whole Matter.**

The First National Bank of Lafayette,  
Lafayette, La., June 16.

*Editor Manufacturers Record:*

Receipt is acknowledged of your circular of June 13, enclosing advance editorials convincingly written but not giving sufficient credit for the tremendous job already done to those to whom the credit belongs, nor for the rehabilitation plans which in this section are well under way and progressing with the receding waters.

Our little city has rescued and is now providing food, shelter and medical attention for over 18,000 flood sufferers. On an average their physical welfare is in better condition than ever before. In addition, by means of boats, western cowboys and every other agency it has been possible to enlist—limited only by our own ingenuity, for no one has failed to respond to even the most difficult demands—thousands and thousands of head of livestock, cattle, hogs and chickens have been saved and will be returned to and with the refugees.

All of this has been possible because of the Red Cross and the untiring interest and efforts of Secretary Hoover, who has also created a confidence that has preserved the morale of the stricken people to an almost unbelievable degree.

To date there has not been the slightest difficulty in obtaining every reasonable requirement and with the rehabilitation work just starting, the instructions to our local committee are such that the people will be returned to their homes with implements, stock and provisions and assured that where needed the provisions will be continued.

In other words it appears that the large number of tenants and the laborers who have no resources, will be taken care of. In which case the land owner, with no crops and interest and taxes to be provided for, presents the only unsolved problem excepting flood control.

Therefore, in the light of facts as I see them, very liberal credit or reparations are needed by the land owners and assurances should be given them at the very earliest possible time.

Mr. Hoover, representing the Administration, has done a wonderful work and I am convinced not only that he is more familiar with conditions and requirements than any other man but also that his sympathetic interest backed by authority which he will command, will see the job through to a sound economic conclusion.

T. L. EVANS, Vice President and Cashier.

**A Claim That Some Louisiana Flood Farmers Are Not in As Bad Situation As Reported.**

J. H. Watkins, Monroe, La., sends the MANUFACTURERS RECORD copy of a resolution passed at the office of the local National Farm Loan Association by Richard K. Boney, a member of the Board of Commissioners of the Fifth Louisiana Levee District; C. C. Norman, planter and secretary-treasurer of the Boeuf River National Farm Loan Association, and J. H. Watkins, secretary-treasurer of the local Association, to the effect that the letter published in the MANUFACTURERS RECORD of June 2 from Alexandria, La., gave an exaggerated account of the financial condition of the farmers as a result of the flood.

**From the Governor of West Virginia.**

Hon. Howard M. Gore, Governor of West Virginia: "I am of the opinion that the Federal Government should extend every needed relief to those unfortunates of the flood districts by reason of the disaster which recently befell them and which could not have been foreseen or avoided."

**North Carolina Senators and Representatives Have Urged a Special Session.**

Hon. Angus W. McLean, Governor of North Carolina, writes:

"I have received and read with interest the MANUFACTURERS RECORD of June 16. In this connection I beg to say that two Senators and all members of Congress from this State have been urging the President to call the special session of Congress."

**Line Upon Line and Precept Upon Precept May Eventually Win.**

C. J. O'Neill, president, O'Neill-McNamara Hardware Company, Vicksburg, Miss., writes:

"Too much cannot be said in favor of the stand taken by the MANUFACTURERS RECORD on the flood-control proposition and the rehabilitation of the sufferers in this present disaster. Let us hope that your continued efforts will eventually awaken the President and Congress to a sense of their duty."

**Mississippi River Is a National, Not a State, Problem.**

Atlanta, Ga., June 11.

*Editor Manufacturers Record:*

The danger of floods in the Mississippi Valley is so important for the entire United States that it is with great satisfaction I see your valued pages devoted to plans for controlling this ever-recurring menace.

As the water flowing down the Mississippi comes from such a large area of the United States, it seems obvious that it is a matter for Federal, not State, control. Owing to different opinions and different problems in the States affected, adequate and concerted action would be impossible. It seems, therefore, that the national Government should select a comprehensive plan and start, as soon as feasible, with measures to be decided upon by a corps of capable engineers.

We should dredge and deepen the present channel in an organized and systematic way, supervised by a properly constituted commission; and build suitable extra levees some distance from the river, from a few to perhaps a hundred miles in places, with adequate spillways so that the flood waters may be confined, at least in part, to the lowest swampy lands which the Government could buy after the value of the land has been estimated.

In normal times part of this low land might be cultivated, but the property owned and controlled like our national parks, and when the floods come, spillways could take care of at least some of the water which otherwise might do greater damage. One thing we may be sure of and that is that similar floods are to recur, and since levees alone, as now designed, are inadequate, we should plan to have the definite low places in the levees where the overflow can be kept away from the towns and most valuable land. Part of the water of the tributaries of the Mississippi should be controlled by suitably placed dams, which will furnish power for industrial purposes. The magnitude of the problem clearly shows the importance and need of Federal action, for the work done by separate States could never be sufficiently co-ordinated to be effective.

I hope that your praiseworthy efforts at this important task may continue and that it will meet with success.

T. T. BALLINGER.

## Possible Danger of Conflicting Interests Among Government Officials and Civilians in Flood Control Work.

By GEORGE GARNER.

Prefatory to actual work on flood prevention in the Mississippi basin—the 1,200,000 square miles from which the streams ultimately flow into the Mississippi River—two tremendous hurdles must be cleared:

First, expert agreement on a policy and system to be recommended to the Executive and Legislative branches of the Government.

Second, enactment of appropriate legislation after this policy and system have been recommended by the experts.

At present, political partisanship has not intruded into the situation. Not a man, in Congress or in private life, so far has assumed a partisan attitude. Leaders in both the Republican and Democratic parties have stood, still stand and will stand on guard to preclude, if possible, the intrusion of partisan politics in the great work of flood prevention. The accord and cooperation of the two great parties was emphasized at the Flood Prevention conference in Chicago. So far, party politics has not complicated the flood prevention movement.

Yet, even with practical politics apparently submerged, the complications are tremendous and well might discourage any group of men less determined than the National and State officials, aroused by demand from the people for action, and less determined than the people of the Nation. The South is not the only section now aroused to realization that flood prevention must be provided—the East, the North and the West have begun to appreciate the actual fact that they, too, suffer in full proportion, economically, with the people of the South; moreover, they are beginning to grasp some idea of the loss of life, the individual suffering and the loss of homes and property of, literally, hundreds of thousands of fellow human beings—brothers in the great American family. The Nation, at least for the present, is aroused; to permit it to relapse into somnolence would savor of treason among those entrusted to carry the flood prevention movement through to successful conclusion.

In the first of the two problems, bureaucracy and jealousy—professional and civilian—are the two chief factors. In Government circles, engineers and other officials first will unite to suppress civilian influence; then, they will be divided among themselves by professional jealousy. So, too, sincere differences of opinion may divide civilian engineers and other experts.

For instance, in the Executive branch of the Government, the War Department has four agencies interested in flood prevention. Beyond this, the President has been asked to name a commission of engineers and other experts in which civilians probably might outnumber the army members. Duplication of study and duplication of effort are assured, and friction inevitably must result.

In the War Department, the bureaus involved are the Office of the Chief of Engineers, the Board of Engineers for Rivers and Harbors, the United States Engineer Office and the Mississippi River Commission. The personnel of these, as given in the Congressional Directory, are as follows:

Office of the Chief of Engineers—Chief, Major General Edgar Jadwin; assistant to the chief, Brigadier General Herbert Deakyne; assistant in charge of the military division, Major Richard C. Moore.

Board of Engineers for Rivers and Harbors—Major Dan I.

Sultan, resident member; Brig. Gen. Deakyne, Washington, D. C.; Col. F. C. Boggs, Philadelphia; Col. E. M. Markham, Fort Humphreys, Va.; Lieut. Col. Max C. Tyler, Wilson Dam, Florence, Ala.; Major R. C. Moore, Washington, D. C.; Major Charles R. Pettis, Baltimore.

United States Engineer Office—Major Breton B. Somervell in charge.

Mississippi River Commission—Colonel Charles L. Potter, president; Charles H. West, Robert L. Faris, John W. Stipes, Edward Flad, Col. Charles W. Kutz, Col. George M. Hoffman and Capt. Willis E. Teale as secretary; headquarters of the Commission at St. Louis.

For years these agencies of the Executive branch of the Government have studied the problems of flood prevention and of inland waterways development. And it is interesting at this point to note how the two subjects of flood prevention and inland waterways have been dovetailed and interwoven in discussion of the flood prevention question.

"The unprecedented flood in the lower Mississippi Valley has caused untold disaster and forced the problem of flood control and the utilization of inland waterways upon the attention of the entire country," said the National Foreign Trade Council convention at Detroit, May 27, last.

"The President of the United States is requested to call a conference for the purpose of formulating, in conjunction with such governmental agencies, a comprehensive plan for navigation and permanent flood control," voted the Flood Prevention conference at Chicago, June 4, last.

Indeed, the Foreign Trade convention named flood control first, while the Flood Prevention conference placed navigation ahead of flood control.

Thus, at least three of the four agencies of the War Department have a twin problem before them, in the subjects of flood prevention and inland waterways, while the Mississippi River Commission also will be involved in inland waterways as well as flood details.

"The War Department controls the services of the greatest corps of river engineers in the world. They have tackled many large problems and always have made good," said Gen. Jadwin, Chief of Engineers, to the Flood Prevention conference.

"We can no longer leave flood defense in the hands of army engineers. We must secure the ablest civilian engineers, business men and economists to work out a complete and comprehensive plan," said Gifford Pinchot, for years interested in the subject, to the same conference, a day after Gen. Jadwin's speech.

As a close observer at the conference, I would say that, had a vote been taken, Mr. Pinchot would have been endorsed by a tremendous margin—indeed, I doubt that Gen. Jadwin would have got a vote among the hundreds of delegates present.

Further, it may be said that Gen. Jadwin in his speech backed water in the army engineers' devotion to levees and indicated that he and his subordinates might be willing to consider the use of reservoirs and spillways, also. For a military official of such standing and authority, this may be regarded as a great concession.

At all events, whether right or wrong, belief is prevalent and strong that the army engineers have fallen down in

their efforts to solve the flood problem, or certainly are not "the ablest corps of river experts in the world," as their chief enthusiastically described them.

But the army engineers hardly will be willing to yield their authority on flood prevention to a civilian commission, or even a mixed commission. They will be equally reluctant to share their responsibilities with others.

Thus, one who has observed the workings of the Government in all its branches, at close range in Washington, well may fear that harmony and cooperation will not be conspicuous; may anticipate friction between various groups; may look for duplication of effort and consequent waste of time and money—may anticipate in the end a delay in action which may extend through several flood seasons.

Nor will the progress of flood prevention be more smooth in the Legislative branch, even though partisan politics be kept down. For one thing, the Executive branch is not without great influence in the Legislative branch. For another, the Executive branch never divides, but always stands united, while the Legislative branch frequently splits. Beyond this lie the multiplicity of Congressional committees which will demand a voice in flood prevention decisions and the diversity of interests represented by the 96 members of the Senate and the 435 in the House.

In the Senate, for instance, the committees on Commerce, on Interstate Commerce, on Irrigation and Reclamation and on Agriculture and Forestry may be expected to demand recognition in the legislative movement. In the House are the Flood Control Committee, Rivers and Harbors, Irrigation and Reclamation. In both chambers, the Appropriations Committees will have a word or two to say.

Of 15 members of the Flood Control Committee in the last Congress, 13 will sit in the Seventieth Congress, as follows: Frank R. Reid, Illinois, chairman; Charles F. Curry, California; R. G. Fitzgerald, Ohio; William F. Kopp, Iowa; Philip D. Swing, California; Willis G. Sears, Nebraska; James A. Frear, Wisconsin; Riley J. Wilson, Louisiana; William J. Driver, Arkansas; Luther A. Johnson, Texas; William L. Nelson, Missouri; W. M. Whittington, Mississippi; E. E. Cox, Georgia. In consistency, I do not mention their party affiliations.

Sixteen of the 17 former members of Irrigation and Reclamation will return, Representative Carl Hayden of Arizona having been transferred to the Senate. Incidentally, Mr. Whittington of Mississippi is a member of this committee also.

So, too, 19 members of Rivers and Harbors will be veterans, only two of the previous 21 being missing.

On the committees at interest on the Senate side, only three former members will not reappear.

All this is premised on reasonable expectation that the committee personnels will be continued as heretofore. Continuance on a committee is of value under the unwritten seniority rule, by which a member moves up ultimately to the chairmanship, if his party be in control.

No member of Flood Control, Rivers and Harbors or Irrigation and Reclamation is a member of House Military Affairs—which will help somewhat.

Thus, progress of the flood prevention movement will not be without complications—complications caused by a thousand and one conditions in the Executive and Legislative branches.

None of which is written in pessimistic spirit, but for the information of persons not informed on conditions in the governmental agencies.

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The city of Oxford, Miss., has awarded contract at \$110,000 to Robert G. Lassiter & Co., Raleigh, N. C., for 30,000 square yards of street paving to consist of a 5-inch concrete base and 2½ inches of sheet asphalt.

## Heavy Loss of Livestock in Louisiana Flood Region.

New Orleans, La., June 18—[Special.]—Flood losses in Louisiana, as they touch the man on the farm, have been summarized as follows in a number of parishes by the Red Cross agencies:

St. Mary's parish: 35,000 acres of land under water; it had been planted to sugar cane, rice and cotton. Persons flooded out, 9250. No work stock drowned; agricultural implement loss and furniture loss slight. Estimated that \$53,000 will be needed for seed, not counting cane, which will be needed next year.

Terrebonne: 5000 acres flooded, affecting 3140 persons, half of them small landowners. No losses of work stock, household furniture or implements. It is not seen how there can be any planting until next spring, because of the long time yet that water will be on the land.

Lafourche: 2400 acres flooded, affecting 280 persons. No furniture, livestock or implement loss.

Assumption: 10,000 acres flooded, affecting 2700 persons; sugar cane and corn. Little other loss. Seed requirements, \$48,000. No planting expected until August.

Red River and Ouachita River valleys were heavier sufferers. In the Red River section, 123,576 acres were flooded in Bossier, Caddo, De Soto, Red River, Natchitoches, Grand and Rapides parishes. Of this acreage nearly 60,000 will be replanted in stock feed and produce. The Red valley lost 23,499 head of livestock and poultry, as well as its crops of cotton, corn, hay.

Ouachita valley suffered heavier losses. Here, 307,990 acres of tilled land were flooded. More than half will be replanted. Livestock losses, 109,391 head, including poultry.

Bossier: 21,747 acres flooded, 523 head of livestock lost.

Caddo: 23,607 acres; no livestock.

De Soto: 953 acres; 597 head livestock.

Red River: 8853 acres; 1218 head of livestock.

Natchitoches: 39,624 acres; 12,010 head of livestock.

Grant: 15,245 acres; 2879 head of livestock.

Rapides: 13,547 acres; 6544 head of livestock.

Union: 8925 acres; 282 head of livestock.

Morehouse: 87,147 acres; 26,430 head of livestock.

West Carroll: 11,388 acres; 8992 head of livestock.

Ouachita: 48,409 acres; 11,514 head of livestock.

Richland: 69,350 acres; 23,738 head of livestock.

Caldwell: 12,164 acres; 10,145 head of livestock.

Franklin: 62,515 acres; 25,433 head of livestock.

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## The Government and Not Charity Organizations Should Handle This Great Question.

George T. Barnes, executive secretary, Chamber of Commerce, Greenwood, S. C., writes:

"Regarding the Mississippi River flood sufferers, permit me to say that I have read your editorial and agree with you in every bit of it.

"This Chamber of Commerce will go on record as requesting the President of the United States to call a special session of Congress to enable our Government to do what it should do without having to call this session. Emergencies such as this flood should be handled by our Government and not through any charitable organization of any class whatever.

"It is a great pity that a nation, great as ours, with or without a treasury surplus, should hesitate for even an hour to hasten the relief to these stricken people. Something should and must be done for them at the earliest possible moment. It would be criminal for any man or set of men to attempt to play politics with a situation of this kind and if a man did it he should be impeached. I sincerely hope that some good may come out of this effort to these stricken people for relief."

## Better Prices for Cotton Predicted.

I. V. Shannon of Fenner & Beane, New Orleans, writing in *Trade Winds*, the monthly financial publication of the Union Trust Company of Cleveland, on the cotton outlook, make some predictions that cotton prices will be higher and that prosperity is in the offing for the cotton producer. He bases his conclusions on the uncertainty of the cotton crop in the Mississippi Valley flooded area, unfavorable planting and late frosts in parts of the cotton belt which have given the crop in the South a late start; increased cotton consumption and larger exports, and the increasing cost of cotton production generally.

"Consequently," he says, "the outlook for the South's chief money crop has radically changed for the better in so far as values are concerned; speculation has broadened and a periodical revival of the cotton market which promises to carry prices above the cost of production, appears imminent." He then adds:

"When the floods first became a menace to the rich lands along the Mississippi River and its tributaries, cotton was selling 4 to 5 cents a pound less than it cost the average farmer to produce it last year.

"The first break in the levee system brought on a wave of buying, which lifted prices 1½ cents a pound within 10 days' time.

"This advance would probably have been many times greater had it not been for the fact that the consuming world was obsessed by the idea that the South has a surplus of cotton from the 1926 crop large enough to provide for its needs this season, even should a comparatively small yield be produced.

"Time is likely to prove such views erroneous and costly to speculators and spinners who take a bearish view of the situation, as the consumption requirements of the world for American cotton are at the maximum, and may be greater next season than during the present one.

"Approximately, 1,250,000 bales of our excess production of last year already has been absorbed by the Far East as a result of the shortage in Indian and Chinese crops. China will be in no position to raise a crop of cotton this year on account of its civil war and the price of silk may be raised to such a level by the disturbances in that country as to increase the demand for our cotton far beyond the expectation of even the most optimistic.

"I personally believe that we are in for a period of several years of short crops, shrinking surplus, rising prices and prosperity for the producer of cotton.

"I hesitate at this early date to venture a prophecy as to how high values will go, but it appears almost a certainty that prices will rise above the cost of production in the near future.

"In making this statement, I have in mind the cost of raising last year's crop, which was approximately 17 cents a pound.

"It is well to bear in mind in this connection the fact that recent small crops have cost around 22 cents a pound to produce and the possibilities are that values may work up to that level, or even above it, if weather conditions during the growing season are unfavorable or if there is a large invasion of weevil or other insect pests.

"The probabilities are that even a crop of 15,000,000 bales will bring over 20 cents a pound, and considerably more if the crop turns out much less than this.

"Last year's crop, including linters, and the carry-over at uncounted towns and plantations furnished a supply of approximately 20,200,000 bales to be marketed. Of this 18,405,000 were marketed up to May 27th, according to figures compiled by the New Orleans Cotton Exchange, leaving little more to come from the farms. Spinners took 15,664,000 bales up to the same date. The remainder of the supply is held mostly by people who are able and willing to wait for a higher market."

Detailed figures showing production and carry-over figures of the cotton crop for a term of years enable Mr. Shannon

to point out the relation between supply and price in the following:

When supply is	Price of spots average
13,000,000 bales	31 cents
15,000,000 bales	26 cents
17,000,000 bales	24 cents
20,000,000 bales	18 cents
22,000,000 bales	15 cents
23,000,000 bales	13 cents

In conclusion Mr. Shannon writes:

"The final returns of the Census Bureau made the crop of lint 17,687,000 bales, which is 700,000 less than the Government predicted when reduced to a unit of 500 pounds gross weight. These returns indicate a total supply of approximately 24,500,000 bales, including linters and the carry-over.

"Spot prices have recently advanced to around 16 cents a pound as a result of the decreased supply outlook and increased consumption prospects.

"Low price cotton has stimulated demand the world over. A shortage in the Egyptian, Indian and Chinese crops has increased the demand for our cotton from unexpected quarters and it now looks as if consumption will total 17,200,000 bales. Such views are largely based on spinners' takings, which usually run hand in hand with consumption. Spinners' takings to May 27th were larger than last year. As the season does not end until July 31, there is ample time for the takings to show a gain in excess of 2½ millions.

"If consumption aggregates as much as is indicated above, the carry-over should be around 7,300,000 bales, of which about 7,000,000 will be lint cotton.

"Such a carry-over should prove no more burdensome to the market, with consumption running between 16,000,000 and 17,000,000 bales, than a 5,000,000-bale surplus did when consumption ranged from 12,500,000 to 14,000,000.

"The bureau of markets, in concluding its report on the effect of supply and carry-over on prices and consumption, expressed the opinion that production finished its cycle of increasing crops with last year's bumper yield, but that consumption was still behind and had considerable to make up before its cycle was completed.

"This statement agrees with the record of other years. There is every reason, therefore, to believe that consumption is on a new high plane and will continue between 16,000,000 and 17,000,000 bales as long as our cotton is available in sufficient quantities to furnish what the mills need.

"The bureau also expressed the opinion that it will take a price of 30 cents and above to restrict materially the spinning of cotton.

"There is very little probability of a sufficient increase in foreign crops to offset any loss in our crop this year, as the low prices which they received for last season's production is discouraging planting, while civil war in China may reduce its crop of 1,500,000 to 2,000,000 bales to almost nothing.

"World production of all kinds of cotton for the past season is estimated at 27,000,000 bales by a private authority, who says this is only about 500,000 larger than was produced the previous year, notwithstanding the fact that our crop alone increased 1,565,000 bales.

"The indications are, therefore, that the carry-over of foreign cotton will be smaller than usual and that the world more than ever will be dependent upon the American crop for its supplies."

### South Carolina Bankers to Meet.

Asheville, N. C.—Details have been completed for the annual convention of the South Carolina Bankers Association, to be held at the Battery Park Hotel in this city from June 27 to June 29, according to an announcement by Henry S. Johnson of Columbia, secretary of the association. It is expected that the association will take action on a number of problems which have been discussed at recent group meetings. The Asheville Clearing House Association has appointed a committee to co-operate with the association for providing entertainment for the delegates. A banquet on the evening of June 28 will be addressed by Dr. S. C. Mitchell of the University of Richmond.

June 23, 1927

## Mobile Bay Bridge Completed and Dedicated.

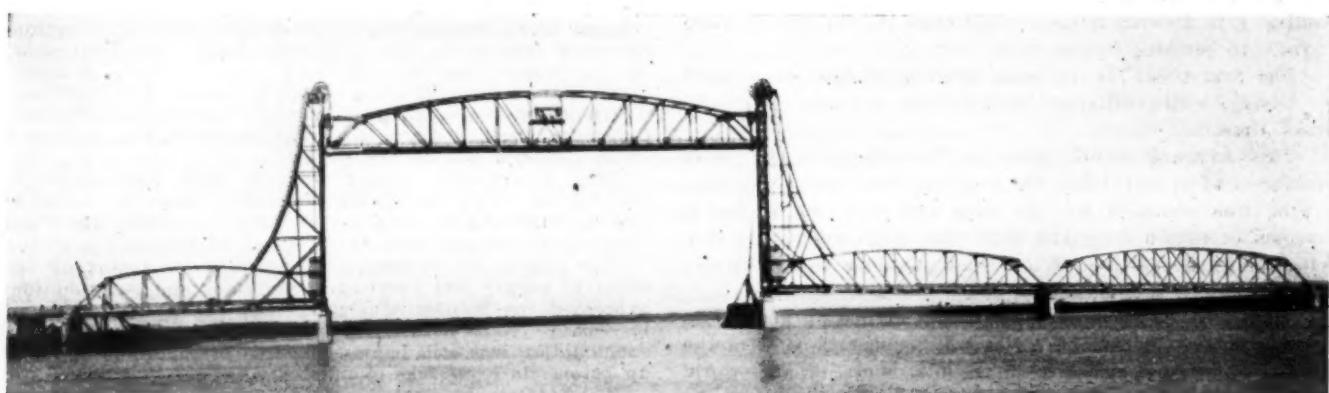
**\$2,500,000 STRUCTURE, 10.5 MILES LONG, IS IMPORTANT LINK IN OLD SPANISH TRAIL—FINANCED BY UNUSUAL PLAN.**

The 10.5-mile bridge and causeway, connecting Mobile and Baldwin counties, Ala., recently completed at a cost of approximately \$2,500,000, crosses five rivers and three bays. Elaborate ceremonies marked its dedication on June 14. Connecting as it does the agricultural sections of Baldwin county, Central and Southeast Alabama with the shipping and manufacturing interests of Mobile, the bridge, it is believed, will play an important part in the development of that entire section of country. It will become a vital factor in the plans of the American Riviera Association, as one of its most important aims is to provide a system of hard-surfaced roads along the northern Gulf coast from Apalachicola on the east to New Orleans on the west. It spans an important gap in the old Spanish Trail, which gives to this famous highway an uninterrupted passage by automobile from Florida to

ture of \$2,500,000 in the building of the bridge is an evidence by the citizens of their faith and confidence in Mobile's future."

The plan under which the project was undertaken resulted from a mass meeting called by the Mayor of Mobile and the Chairman of the Mobile County Board of Road and Revenue Commissioners in July, 1925. John T. Cochrane, then president of the Chamber of Commerce, was elected chairman, and set as the principal goal for his administration the bridging of Mobile Bay.

Briefly, the plan adopted provided for the organization of the Mobile Bay Bridge Company, capitalized at \$1,000,000, with seven directors, two representing first mortgage bondholders and five the city of Mobile; the officers and directors to serve without pay. A contract was entered into with the



MOBILE RIVER BRIDGE, SHOWING 330-FOOT VERTICAL-LIFT SPAN.

California. As Mobile is the converging point of several other national highways, this bridge affords direct routing for all east and west, as well as north and south, automobile traffic between the Gulf coast and the north and middle west.

"We feel that we have constructed a highway across the headwaters of Mobile Bay that will redound to the benefit of our State and our nation as well as to our city and seaport," said the Board of Commissioners, City of Mobile, in an advertisement published in the Mobile Register, on the occasion of the dedication of the structure. "Our Government has spent more than \$22,000,000 in the development of our rivers and harbors; Alabama is spending \$10,000,000 in the construction of a most modern dock terminal system, so the expendi-

county of Mobile to operate the bridge when completed and provide all maintenance from its general funds. All income from tolls on the bridge were to go first to taxes, insurance and interest and all surplus to the redemption of the first and second mortgage bonds on the basis of 60 per cent to the retirement of the firsts, and 40 per cent to the retirement of the seconds. The bonds are callable at 105, and when all are redeemed the bridge automatically becomes the property of the county, or the county can buy it at any time or assign its rights to the State, at which time it may be toll free if the authorities wish. The plan provided for the issuance of \$2,700,000 7 per cent 25-year bonds, and 5 per cent of the amount of first mortgage bonds in debentures to go to pur-



FIVE STEEL SPANS ACROSS THE TENSAS-SPANISH RIVERS.



CONCRETE TRESTLE ACROSS BLAKELEY RIVER.

chasers of first mortgage bonds and to be paid only after all other bonds have been redeemed, divided \$1,420,000, first mortgage and \$1,280,000, second mortgage. The first mortgage bonds were sold to bankers at 90 and the second mortgage bonds to provide the equity were purchased by Mobilians at 80. No promotion profit was allowed, and the only profit that could be made was the profit on the bonds subscribed for. Financing was completed in November, 1925, bids were advertised for and contracts awarded in January, 1926, and the bridge was completed in June, 1927, which probably establishes a record for the consummation of so big an enterprise of this character.

In expression of appreciation of the formulating of a practical plan by Mr. Cochrane and his services as president in financing and carrying to completion the construction of the bridge, the civic bodies of Mobile, including the Kiwanis, Rotary, and Lions Clubs and the Chamber of Commerce, unanimously requested the board of directors of the bridge company to name and dedicate the project, "Cochrane Bridge," which was done by resolution of the board in August, 1926.

The officers of the bridge company include: John T. Cochrane, president; W. Marshall Turner and A. C. Dent, vice-presidents; Ernest F. Ladd, treasurer; R. M. Weinacker, secretary. The officers, together with Harry T. Hartwell and Sidney F. T. Brock, comprise the board of directors. E. A. Carstens is assistant secretary. The attorneys are: Armbrrecht & Hand, and Stevens, McCorvey, McLeod, Good & Turner. The engineers are: Harrington, Howard & Ash, Kansas City, Mo., consulting engineers; A. R. Brown, resident engineer. Financing was accomplished by Peabody, Houghteling & Co., New York city, subscribing for first mortgage bonds.

The Kansas City Bridge Company, Kansas City, Mo., had the contract for the two main bridges, including all of the foundations, steel and machinery erected complete. The firm of Doullut & Ewin, New Orleans, had the contract for the trestle approaches and the trestle bridges over the Apalachee and Blakeley rivers.

The Mobile River Bridge consists of three fixed, through spans and one 330-foot vertical lift span, all with concrete roadway. The piers are of concrete supported on wood pilings with the base of the concrete approximately 35 feet below the water level. The vertical lift span has a normal lift of 111 feet 6 inches, with provision for an extra three feet in case of need. Clearance between the water and the base of the lift span when the span is lifted to its maximum height is 138 feet. The span is operated by electric power with a gasoline engine auxiliary for use in case of emergency.

The Tensas River Bridge consists of four fixed spans and one 180-foot vertical lift span. The pier and superstructure design is practically the same as that of the Mobile Bay Bridge, with the exception that the span does not lift as high

due to different shipping conditions. The construction of these bridges was accomplished entirely by floating equipment. The steel spans were erected on the same set of false-work at the west end of the Mobile River Bridge and were towed on barges to their final position on the river.

The structural steel was fabricated by the Virginia Bridge and Iron Company, Roanoke, Va., a total of 2290 tons being used in the two bridges. The operating machinery was furnished by the Hardie-Tynes Manufacturing Company, Birmingham, Ala.

#### \$350,000 Hotel Grayson Opened at Sherman.

Sherman, Texas.—Erected at a cost of \$350,000, the Hotel Grayson has recently opened with formal exercises covering a three-day program. The building was sponsored by the Sherman Chamber of Commerce, citizens subscribing \$70,000 of preferred stock in the Sherman Hotel Company, W. C. Witt, president, organized to erect it. It is of brick, stone, tile and reinforced concrete construction and contains 110 rooms. Boyle & Carrington are the architects and Gardner & Howe, structural engineers, both of Dallas; the Bellows-MacLay Construction Company, also of Dallas, is the general contractor. It will be managed by the Matson Hotel Operating Company, under the direction of R. B. Ellifritz, managing director of the Adolphus Hotel, Dallas. Bert Bowman is the local manager.

The following firms handled various work on the building: J. M. Johnson Electric Company, electric wiring and conduit work; Warren Law, lighting fixtures; George A. Franklin, painting; Austin Bros., steel; Dallas Architectural Decorating Company, cast stone, all of Dallas; Leslie Hardware Company, hardware; Sherman Sash and Door Company, door and millwork; J. C. Korieth Plumbing and Heating Company, plumbing and heating, all of Sherman; American Elevator and Machine Company, Louisville, Ky., elevator, and Ed Friederich, San Antonio, refrigerating equipment. Furniture was supplied by the Ward Furniture Company, Fort Smith, Ark.; springs by the Daltex Spring Bed Company, Dallas; mattresses by the Herman Manufacturing Company, Dallas, and rugs by Marks Bros., Sherman.

#### Facts About Lakeland, Fla.

The Lakeland, Fla., Chamber of Commerce, A. W. Benford, corresponding secretary, has issued several fine folders setting forth the manifold advantages of Lakeland and vicinity, in one of the most interesting sections of the State. Many of the pictures illustrating these publications are done artistically in colors. Attention is also directed to the fact that the railroads are making low round trip summer rates for 16-day excursions to Florida points, viz., one fare plus 10 per cent.

### Architect Engaged for New State Building.

Plans and specifications for the new building to be erected in Baltimore by the State of Maryland, for housing the Department of Motor Vehicles, will be drawn by William Gordon Beecher of Baltimore, who has been engaged as architect. As previously announced, the structure will be erected at Guilford avenue and 22d street, the cost to be met by a legislative appropriation of \$235,000, of which \$65,000 will be paid for the site. E. Austin Baughman, Commissioner of Motor Vehicles, and James Carey Martien, both of Baltimore, are handling details.

### United States Produces and Consumes Most of World's Sulphur.

Domestic consumption of sulphur in the United States last year set a new record for the country. The production of sulphur was 1,890,057 tons, while shipments from production and stock amounted to 2,072,687 tons, valued at approximately \$37,300,000. Practically all of the sulphur mined in the United States comes from the South and the United States produces 87 per cent and consumes 70 per cent of the world's sulphur output. Two companies in Texas and shipments from Louisiana from stock furnished 99.9 per cent of the domestic supply. Exports of sulphur in 1926 totaled 576,966 tons. Imports of sulphur are negligible.

Parsons & Petit, New York, selling agents for the Freeport Texas Sulphur Company, advise the MANUFACTURERS RECORD that the sulphur market continues firm with trend upward. Price quotations for yearly contracts \$23.50 Canadian points, \$22.50 Boston and Portland, \$22 New York, Philadelphia, Baltimore, Southern and Gulf ports, and \$18 mines. Spot and small quantities are held at \$1 or \$2 additional. Most of the trade have already bought their requirements for 1927.

Exports of sulphur for the four months ending April, 1927, 167,254 tons, compared with 212,014 for the same period ending April, 1926. The imports of pyrites for the four months ending April, 1927, 87,823 tons, against 111,477 tons for the same period ending April, 1926.

### Southwest Gas Company to Issue \$3,000,000 of Bonds—Awards Contract for Transmission Line and Distribution Systems.

An issue of \$3,000,000 of first (closed) mortgage  $8\frac{1}{2}$  per cent sinking fund gold bonds has been offered by the Southwest Gas Company, Houston, Texas, of which J. W. Colvin is president. This company is a consolidation of a number of gas distributing systems supplying natural gas at retail to cities and towns in Central Texas and Oklahoma. Its service will include Cuero, Yoakum, Gonzales, Stephenville, Dublin and De Leon in Texas, and Ada and Seminole in Oklahoma. In addition to its retail distribution, the company also supplies directly or through its subsidiaries, wholesale gas to a number of industrial firms. It is not a producing company, but obtains its supply through long-term contracts with the Houston Gulf Gas Company, American Oil and Refining Company and others.

Mr. Colvin advises the MANUFACTURERS RECORD that the company has awarded a contract to Sanderson & Porter, New York, to supervise the construction of transmission lines from Edna, which is the connecting point with the main line of the Houston Gulf Gas Company, to Cuero, Yoakum and Gonzales, and for building distribution systems in these towns.

### To Aid Ex-Service Men to Attend Paris Convention.

President James M. Kurn of the St. Louis-San Francisco Railroad, St. Louis, has announced that any ex-service men now employed on that system who wish to attend the National Convention of the American Legion in Paris this autumn will be granted leave of absence to do so and that the company will request free transportation to the port or ports from which steamers depart, and in addition to that will endeavor to also secure for them free transportation—or else reduced rates—across the Atlantic Ocean. There are many former soldiers in the employ of this railroad.



A GREAT SOUTHERN INDUSTRY—SHIPPING SULPHUR FROM FREEPORT, TEXAS.

## A Group of Letters From Great Business Leaders of Texas.

If the MANUFACTURERS RECORD attempted to publish all the letters of enthusiastic commendation which come to it from all parts of the country, we are afraid our readers would feel that we were moved by a spirit of egotism. On the contrary, every letter of this kind only serves to deepen the impression in this office felt by every member of the force, of the responsibility which rests upon this institution in seeking to justify the hearty commendations which are received. Recently, however, there have come from leading commercial organizations and leading men of Texas some letters of such extremely enthusiastic commendation because of the work that we have been doing for many years for that State and for the South at large, that we are publishing a few of them for the purpose of emphasizing to other people throughout the country, how some folks in Texas think of this paper and its work. We beg the indulgence of our readers for giving so much space to a few of the many letters received.

It is universally admitted in Texas we believe that few men in that State have done more in the last 35 or 40 years to create great industries there, and to press the claims of Texas upon public attention throughout the nation than John H. Kirby. Writing under date of May 30 Mr. Kirby paid the following glowing tribute to the work of this paper:

"I am gratified to know that you are sending one of your best representatives into Texas to solicit subscriptions. You could render this great Commonwealth no higher service than to place the MANUFACTURERS RECORD in as many hands as possible.

"While the MANUFACTURERS RECORD is an industrial paper of high merit, the highest of any in the United States and promoting more effectively than any trade paper in America the industrial thrift and progress of the South, yet its usefulness is not confined to purely industrial matters. You cover every phase of the South's activities and the paper is valuable to professional men, merchants and thinkers of every class as well as to those engaged in productive industry.

"I know a number of instances where ministers of the Gospel subscribe regularly for the MANUFACTURERS RECORD, read it with diligence and hold firmly that it is the most useful secular publication that comes to their study halls. Notably among these are Dr. Peter Gray Sears, rector of Christ Church, and Dr. E. P. West, pastor of the Baptist Temple of this city.

"I repeat: I wish you great success in this effort to give the MANUFACTURERS RECORD wider distribution in Texas and I shall be glad to aid you in every way in my power."

Another business leader, active and aggressive in his work, though we believe about 75 years of age, a man who through his whole life has had abounding faith in Texas, as proved by his work, and who has wrought marvelously in material advancement, is Ike T. Pryor, a leading citizen of San Antonio. A recent letter from Mr. Pryor said:

"After having read the MANUFACTURERS RECORD for many, many years—in fact, I do not remember when I first became a regular reader—I am of the opinion your publication has done more toward the development of the South than any dozen publications I can think of.

"If a business man is thinking along the line of any particular development, the MANUFACTURERS RECORD will keep him reliably advised as to what is going on in that particular industry. In my opinion, if the average business man knew or could realize the assistance this publication could be to him, and his business, very few, if any, would be without it.

"One particular advantage your magazine has to offer is its up-to-date reports on the South's development. It will give the resident of any city more information about the industrial development of that

particular city than any local paper or magazine published within its boundaries. In its almost half-century of publication it has done an incalculable service to the South, in particular, and the nation as a whole.

"The editorial on the front cover each week is well worth the price one pays for the magazine. Each magazine is filed in my office and when I reach the limit of my filing capacity I remove the cover-page editorials, file them and send the magazines to some of our charitable institutions.

"To those who want the best in its line, I unhesitatingly recommend the MANUFACTURERS RECORD."

Houston is one of the most rapidly growing cities of America. Some years ago the late Henry E. Huntington predicted to a friend of his that it would probably become the greatest city in the entire South, and he based this not only on the natural advantages of Houston, but on that spirit of enthusiastic co-operation of its business people in working together for the upbuilding of the whole community.

The Chamber of Commerce of Houston, chartered in 1845, is one of the active workers in behalf of that city, and Ike Ashburn, vice-president and general manager of the Chamber of Commerce, writes:

"May I express to you the personal appreciation I feel, as a Texan, for the splendid treatment your magazine is accorded this State in its articles dealing with sectional and municipal progress. I know of no magazine more helpful to the individual reader than the MANUFACTURERS RECORD and it is not only helpful and instructive, but is interesting without.

"You are making a magnificent effort to be helpful in the development of the Southwestern section of the country and your articles are illuminating and, I think, accurate. The MANUFACTURERS RECORD will have a very decided appeal to every person who likes to keep abreast of the times and be informed as to the nation's progress, industrially and commercially."

Dallas, one of the wonder cities of America, whose remarkable growth has been of nation-wide interest, is another Texas city in which this paper is enthusiastically appreciated. M. J. Norrell, general manager of the Chamber of Commerce of Dallas, expressing his opinion of the MANUFACTURERS RECORD says:

"For a number of years now I have looked forward each week to the receipt of your splendid publication, the MANUFACTURERS RECORD, and it is my sincere opinion that your publication has rendered an outstanding service to the South in bringing to national and even to international attention the tremendous potentialities of this area.

"When we take into account the fact that the industrial and commercial South is the result of barely a half-century's growth, we can then better realize the progress that has been made and the commercial miracle that has been wrought during this half-century in the South. Your part in making this sustained and permanent growth possible has been a marked one, and I congratulate you upon the constructive work you have done and upon the worthwhile accomplishments of your publication.

"I wish for you, personally, and for the MANUFACTURERS RECORD the full measure of success you merit, and I am quite confident you will always find the entire South ready to co-operate with you in the furtherance of your plans. You have carried the torch of Southern progress, a light that has proven the harbinger of a new day of Southern progress and achievement."

San Antonio the beautiful, widely noted as a health resort and as one of the busiest cities of America, through R. W. Morrison, one of the leaders of all Southwest Texas and president of the South Texas Chamber of Commerce and the San Antonio Chamber of Commerce, expresses the desire to

see the people of Texas to a larger extent than at present read the MANUFACTURERS RECORD. Writing on that point he said:

"During the past several months the very splendid constructive publicity which the MANUFACTURERS RECORD has given to South Texas in the form of illustrated articles and otherwise should, I feel, not be permitted to pass without receiving specific acknowledging from South Texas.

"As president of the South Texas Chamber of Commerce and the San Antonio Chamber of Commerce, I wish to take this opportunity of thanking you and at the same time of stating that I feel it would be greatly to the advantage of those seriously interested in the development of South Texas if they would get acquainted with what you are doing to help them and their own resources through carefully reading your valued magazine."

Porter A. Whaley, the general manager of the Chamber of Commerce of San Antonio, likewise desires to see the MANUFACTURERS RECORD more widely circulated in his own city, and thinks that however large may be the number of subscribers in San Antonio it should be ten or fifteen times as large. On that point Mr. Whaley wrote:

"We would like to see more business men of the Southwest subscribe to the MANUFACTURERS RECORD than is the case at present. The MANUFACTURERS RECORD has been of incalculable benefit to both the South and Southwest, and carries a message of progress and inspiration.

"There are a great many subscribers to the MANUFACTURERS RECORD in San Antonio, but there should be ten or fifteen times as many as there are. San Antonio would be the beneficiary."

Among those who first foresaw the vast possibilities of the Rio Grande section and built a great railroad system for opening up that territory was B. F. Yoakum, one of the railroad leaders of America. Living now in New York, devoting much of his time to the general welfare of the country, Mr. Yoakum under date of June 9 wrote the MANUFACTURERS RECORD as follows:

"I have read so many articles in the MANUFACTURERS RECORD within the last few months that I feel it will not be amiss for me to tell you how much I am impressed with the splendid work that the MANUFACTURERS RECORD is carrying on in the interest of the South.

"I note with interest its work is not confined to industrial development alone, but covers every phase of activity in that part of the country. Your writers have all shown a careful study of their subjects and their articles have been based upon facts rather than merely assumed possibilities. I am only writing to express my views and to add my good wishes for the MANUFACTURERS RECORD's increasing success in the splendid work it is doing, which I am sure will continue in the future as it has in the past."

Our justification for publishing these letters is simply to show that if the work which this paper is doing in behalf of the South merits such enthusiastic commendation, then the more widely it is read throughout the South the greater will be the good accomplished for the South.

We are constantly reminded by our readers that in every issue is to be found inspiration for those who are seeking to upbuild the South, and a vast fund of facts and figures invaluable to Southern people. If this be true, and we are assured by thousands of people it is, then those who are not reading this paper are missing a very great opportunity of which their friends are availing themselves to their own advantage and to the increasing prosperity and progress of the South.

It is an interesting fact, as mentioned by Mr. Kirby in his letter, that many ministers of the Gospel, professional men, and others not engaged in any way in manufacturing pursuits, find the MANUFACTURERS RECORD of as great interest as do the industrial leaders. As a matter of fact, the name MANUFACTURERS RECORD is somewhat of a misnomer, but the paper has carried that name since its birth 45 years ago, and

could not now well change. Instead of being a strictly trade or industrial publication, the MANUFACTURERS RECORD is, broadly speaking, a newspaper or forum for discussing all the great economic problems of the South and of the country at large, discussing ways in which its educational and moral advancement may be augmented, and freely opening its columns to the views of the great questions of the day by many of the foremost men of the country.

### Carolinas Join Gigantic Super-Power System Linking Seaboard With Mid-West.

North and South Carolina—barring one section of Eastern Tarheelia—are now traversed by high-voltage electric transmission lines which in a few short weeks will constitute a part of a mighty Eastern and Mid-Western super-power system, according to Public Service, issued by the North and South Carolina Public Utility Information Bureau.

Already the Carolinas are part and parcel of the super-power system of the Southeast, but there is coming—and it will arrive in August of this year—a new link which will tie together the great sources of electric power all over the Atlantic seaboard, which in turn will be joined with the systems along the Great Lakes and the Canadian border.

Virtually all of South Carolina is now covered by transmission lines which bind together the big power companies of the two Carolinas, of Georgia, Alabama and Florida. The Carolina Power and Light Company in the East, the Southern Power Company in the Piedmont, the Broad River in the Central, the South Carolina Power Company along the lower coast and the Edisto in the Southwest—all are linked together, and in turn maintain connection with the sources of power in neighboring States to the West and Southwest.

In North Carolina, the Southern Power Company in the Central and Piedmont, the Carolina Power and Light Company in both the West and Central, the Tide Water Power Company in the Southeast and Virginia Electric and Power Company in the Northeast have their interconnections together with their links with South Carolina and the States adjacent. There is only one section of considerable area not included within the circuit; it is that territory in which Kinston, Greenville, Washington, New Bern and other cities of Eastern North Carolina are the centers.

But still greater developments are coming. This South-eastern super-power system is joining hands with the Middle Atlantic, the New England and the Mid-Western systems.

In August of this year the last link will be forged when the line from Roxboro, N. C., to Danville, Va., is completed. The Carolina Power and Light Company will be the connecting link between all the other power companies of the two Carolinas and the great sources of power to the North and Northwest. That means that the vast electric resources of the Great Lakes region, of Pennsylvania and the mammoth developments now going on in Maryland will be at the command of the power companies of North and South Carolina.

Not satisfied with the two great inlets north and south, the companies are soon to be connected with territory directly to the West through a link to be established at McKeesport, Tenn. It is the Carolina Power and Light Company here again that will effect the junction.

### New Charleston-Havana Steamship Service.

Beginning June 28, and every Tuesday thereafter at 2 P. M., the Baltimore and Carolina Steamship Company will operate a weekly service from Charleston, S. C., direct to Havana, Cuba. A. J. Blalock of the Baltimore office is the general agent of the company.

## The Iron Industry in 1926.

In magnitude of production in 1926 the iron and steel industry recorded a remarkable year, according to the United States Bureau of Mines. The production of steel in 1926 was the largest ever recorded and the production of pig-iron was only 2 per cent less than the record year. The production of iron ore, however, did not keep pace with the outputs of steel and pig-iron, it showing a decrease of about 10 per cent from the year of largest output.

The iron ore mined in 1926 amounted to 67,623,000 gross tons, an increase of 9 per cent as compared with 1925. The shipments of iron ore in 1926 amounted to 69,292,832 gross tons, valued at \$174,015,645, an increase of 8 per cent in both quantity and total value as compared with 1925. The average value per ton of iron ore at the mines in 1926 was \$2.51, which is virtually the same as the average for 1925. The stocks of iron ore at the mines at the end of 1926 amounted to 9,495,880 gross tons, compared with 10,795,630 tons at the end of 1925, a decrease of 12 per cent.

### IRON ORE MINED IN THE UNITED STATES, 1925-1926 (EXCLUSIVE OF ORE CONTAINING 5 PER CENT OR MORE OF MANGANESE).

State	1925		1926	
	Tons	Tons	Tons	Tons
Alabama	7,093,250	6,847,789		
California	352	282		
Colorado	8,642	35,535		
Georgia	78,835	51,642		
Michigan	14,490,529	15,248,254		
Minnesota	36,856,244	40,701,613		
Missouri	40,043	124,371		
Montana	3,672	724		
New Jersey	202,942	209,117		
New Mexico	172,959	216,269		
New York	141,534	638,849		
North Carolina	22,011	15,198		
Ohio	2,410			
Pennsylvania	955,955	1,095,505		
Tennessee	164,717	138,819		
Utah	270,029	295,009		
Virginia	96,272	49,159		
Washington	830	1,702		
Wisconsin	817,149	1,322,776		
Wyoming	489,622	630,387		
	61,907,997	67,623,000		

### VARIETY OF ORE MINED IN UNITED STATES.

Hematite	1925		1926	
	Tons	Tons	Tons	Tons
Brown Ore	59,546,690	64,634,573		
Magnetite	884,600	810,924		
Carbonate	1,472,004	2,175,288		
	4,703	2,215		
Total	61,907,997	67,623,000		

### IRON ORE SHIPPED FROM MINES IN THE UNITED STATES, 1925-1926, BY STATES (EXCLUSIVE OF ORE CONTAINING 5 PER CENT OR MORE OF MANGANESE AND OF ORE SOLD FOR PAINT).

State	1925		1926	
	Tons	Value	Tons	Value
Alabama	6,891,081	\$14,134,677	6,871,412	\$13,846,656
California	352	(a)	282	(a)
Colorado	8,642	(a)	35,535	(a)
Georgia	79,488	231,683	51,642	149,198
Michigan	15,254,003	40,926,315	16,699,984	43,932,982
Minnesota	38,022,237	96,083,485	40,961,361	103,715,621
Missouri	40,043	(a)	124,371	532,536
Montana	3,672	10,244	724	1,810
New Jersey	164,523	678,021	212,152	925,403
New Mexico	172,959	(a)	216,269	(a)
New York	413,517	1,988,735	659,741	3,015,586
North Carolina	22,011	49,511	14,798	31,645
Ohio	2,410	(a)		
Pennsylvania	917,255	2,149,800	1,088,634	2,483,056
Tennessee	164,073	369,144	138,307	312,109
Utah	268,529	361,251	296,943	411,611
Virginia	76,302	174,454	49,703	162,446
Washington	830	(a)	1,702	(a)
Wisconsin	933,214	2,260,388	1,238,885	3,178,156
Wyoming	489,622	(a)	630,387	(a)
Undistributed	....	b1,379,178	....	b1,316,830
	63,924,763	\$160,796,886	69,292,832	\$174,015,645

(a) Included under "Undistributed."

b This figure includes value for States entered at "(a)" above.

The production of pig-iron in 1926, exclusive of ferro-alloys, was 38,755,698 gross tons, compared with 36,124,678 tons in 1925. In the production of pig-iron in 1926 there were used 65,922,601 gross tons of domestic iron ore and manganeseiferous iron ore; 2,442,631 tons of foreign iron ore and manganeseiferous iron ore, and 6,254,523 tons of cinder, scale and scrap, a total of 74,619,755 tons. An average of 1.925 gross tons of metal-

ferous materials was consumed per ton of pig-iron made in 1926, as compared with 1.924 tons in 1925.

The shipments of pig-iron from blast furnaces in 1926, amounting to 38,181,053 gross tons, valued at \$749,633,468, showed an increase of 3.7 per cent in quantity and 1.4 per cent in total value. The general average value of pig-iron of all grades at the furnaces in 1926 was \$19.63, a decrease of 45 cents from the value in 1925.

### PIG-IRON SHIPPED FROM BLAST FURNACES IN THE UNITED STATES, 1925-1926, BY STATES.

State	1925		1926	
	Tons	Value	Tons	Value
Alabama	2,910,370	\$57,777,275	2,875,534	\$58,119,260
Colorado	(a)	(a)	(a)	(a)
Illinois	3,600,484	74,937,781	3,626,330	73,460,392
Indiana	3,350,747	64,807,575	3,670,478	69,292,329
Kentucky	153,935	(a)	148,053	(a)
Maryland	693,523	(a)	791,637	(a)
Massachusetts	831,435	18,452,346	23,130	(a)
Michigan	276,240	(a)	292,658	(a)
Missouri	3,758	(a)	.....	.....
New Jersey	2,151,036	40,435,443	2,389,665	44,970,196
Ohio	8,857,615	173,418,068	9,177,127	176,433,401
Pennsylvania	12,537,809	258,140,674	13,142,528	263,238,184
Tennessee	95,186	2,014,176	113,029	2,544,825
Utah	126,746	(a)	(a)	(a)
Virginia	97,884	2,237,749	105,019	2,322,451
West Virginia	499,047	9,416,095	364,302	(a)
Wisconsin	226,712	4,836,952	235,597	5,034,012
Undistributed	b402,175	b32,842,199	b587,684	b41,038,305
	36,814,702	\$739,316,333	38,181,053	\$749,633,468

(a) Included under "Undistributed."

b Includes figures for States entered as "(a)" above.

The shipments of ferro-alloys of all classes in 1926 amounted to 689,258 gross tons, valued at \$61,368,407, an increase of 12 per cent in quantity and of 16 per cent in total value. The production of ferro-alloys in 1926 was 674,389 gross tons, as compared with 575,455 tons in 1925, an increase of 17 per cent.

### Amiesite Corporation to Build Asphalt Plants in Tennessee.

The United States Amiesite Corporation of Cleveland, Ohio, will construct an amiesite asphalt plant at Mimms, Tenn., about eight miles from Nashville. The company also plans locating plants at Memphis, Knoxville and Chattanooga. Regarding its proposed activities it wires:

"Our plant at Nashville will have a capacity of 400 tons per day and construction will be carried on by the corporation's own engineers with the co-operation of the J. D. Faraway Manufacturing Company of Cleveland, through whom practically all equipment will be ordered. Construction details will be similar to those found in amiesite plants in Arkansas, Ohio, West Virginia and Pennsylvania."

"In addition to the plant at Nashville, it is anticipated that there will be within a short time plants at Memphis, Knoxville and Chattanooga. It is expected that employment will be given to over 100 men. Our new plant at Little Rock is complete and ready to start operations immediately and we expect to produce our first tonnage within the coming week. Our construction program in Tennessee calls for an expenditure of practically \$250,000."

It is stated that manufacturing and sales operations in Tennessee will be in charge of Frank M. Whitfield as State manager, who will maintain offices in the Cotton States Building, Nashville.

### Disposition of Public Utilities Income.

Bulletin No. 13 of the Bureau of Business Research, College of Commerce and Business Administration, University of Illinois, is devoted to consideration of "The Disposition of Income in Public Utility Companies." It appears to be a comprehensive consideration of the subject containing much data tabulated and otherwise. The university is situated at Urbana, Ill.

## Completing Dam As Part of Power Project and Resort Development in Western North Carolina.

By BART LEIPER, Asheville, N. C.

Completion of Lake Lure Dam, in Western North Carolina, 26 miles southeast of Asheville, marks the realization of one great step in the creation of a combined power project and mountain lake resort.

An unique feature of the power plant has been the introduction of automatic remote control. This makes possible the elimination of a day-and-night engineering force, thus bringing about an ultimate saving of many thousands of dollars each year.

A 1500-acre lake forms the central feature of the resort, embracing 8500 acres. The project includes extensive physical improvements, totaling over \$3,000,000. Among these is Lake Lure Inn, opened last October, representing an outlay of \$250,000; under-lake sewer system, \$225,000; completion of six miles of State highway, paved with concrete, including three ornamental-type arch bridges; telephone, lighting and water systems, and a partial completion of the first block of business buildings.

The dam across the Rocky Broad River is 104 feet high and 585 feet wide. The structure rests upon solid granite extending entirely across the site and well above the water line at one end. The other end has been handled as a hydraulic core fill to the level of the highway bridge above the dam. The Rocky Broad River has a drainage area of about 100 square miles above the site of the dam and records show that the runoff is ample to maintain the lake level even in the driest periods known. At practically all times there will

neers worked out an effective type of forms for the arches. These forms, in general, were similar to the type used on the cylindrical bins of grain elevators, with modification to suit the peculiar problems presented here. Each form consisted of an outside and inside sector, which were set up at the river bottom on the buttress that was to carry the arch. As soon as practicable after the section was poured, the inside form was lowered slightly by means of a set of small jacks built into the ends of the steel frame of the forms. Then the form was skidded up to the next level with a line on one of the derricks. Steel channels placed in the face of the buttress provided a skidway at each end of the form. When the new position was reached the jacks were run up sufficiently to seat the form correctly. The outside form, which merely rested on the face of the buttress, was lifted to its new position each time by one of the derricks. This scheme of handling forms eliminated all shoring, and also allowed the forms to be used repeatedly. The roof of the power-house itself was made from these same forms.

Paul Holland represented jointly Chimney Rock Mountains, Inc., the owners, and Messers Mees & Mees, as resident engineer. George Sibley was general superintendent for the contractors.

The feature of automatic remote control of the power plant, of which this is the first installation in the South, has been effectively used in numerous instances in the North and West. A small float switch, placed in a carefully designed basin,



\$1,200,000 DAM WHICH CREATES LAKE LURE, AND ALSO PRODUCES 13,500,000 KILOWATT-HOURS OF ELECTRICITY ANNUALLY.

be a considerable surplus flow, which passes through the hydro-electric plant under one of the arches of the dam.

The dam was designed by Mees & Mees, consulting engineers, of Charlotte, N. C. It was built under the supervision of the Clement-Dunavant Company, general contractors, of the same city.

The location of the site 13 miles from the nearest railway made essential the selection of a type of structure whereby the tonnage of imported materials might be reduced to a minimum. The design of the dam called for a structure of the multiple arch type, with the axis of the arches inclined 45 degrees from the horizontal.

Taking advantage of this design, the contractors and engi-

baffled and stilled to prevent interference from wave action, closes the contacts when the lake is at maximum. This energizes a small solenoid upon the governors controlling the generating units, allowing these units to come up to speed. At approximately 95 per cent of full speed these machines become connected automatically to the 44,000-volt transmission line leading to the Turner Shoals plant of the Blue Ridge Power Company. At the same time they become connected with their exciter units.

At full speed another centrifugal contact is made, placing control of the generating unit within the province of the full automatic features of the oil-pressure governors. At the same time automatic voltage regulations come into play,

adjusting the voltage of the machine to the values at which they previously have been set.

A drop of three inches from maximum lake depth causes the larger unit, 3500 horsepower, to cease operations, while another three-inch drop automatically cuts off the 1750-horsepower machine. Power is generated at 2300 volts, and stepped up to 44,000 volts. A separate bank of transformers is likewise provided under the arch to step the current up to 11,000 volts for a belt line encircling the 8500-acre Lake Lure estate for local residential and commercial use.

The intake tower, circular in form, is provided with a Shepard weatherproof hoist, equipped with mechanical and electrical brakes. This 14-horsepower motor may be operated from the control bridge jutting off the main highway bridge,

or from the power-house. A traveling Murray hoist, mounted on rails upon the tainter gate bridge, operates the three flood gates, measuring 16 by 25 feet each. This hoist is propelled manually, and the five-horsepower motor raises the gates, each of which weighs 2800 pounds.

Contractors included: General, Clement-Dunavant Company, Charlotte, N. C.; turbines, S. Morgan Smith Company, York, Pa.; governors, Woodward Governor Company, Rockford, Ill.; generators and control equipment, Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa.; head gates, Newport News Shipbuilding and Dry Dock Company, Newport News, Va.; tainter gate hoist, D. J. Murray Manufacturing Company, Wausau, Wis., and crane, Cleveland Crane and Engineering Company, Wickliffe, Ohio.



LAKE LURE, A WATER PLAYGROUND, 1500 ACRES IN EXTENT.

### Growing Peanut Industry of China a Strong Competitor of the South.

Although the peanut crop of the United States, and that means the South, amounts annually to around 375,000 short tons, this country is still a heavy importer of peanuts from China. In 1926 our imports of peanut kernels from that country amounted to 26,566 short tons. In addition we bought from the Chinese 3415 short tons of unshelled peanuts and 7265 short tons of peanut oil. As China is the chief source of our peanut imports, the United States Department of Agriculture, through its representative at Shanghai, Agricultural Commissioner Paul O. Nyhus, has made a survey of peanut production and marketing. Mr. Nyhus' report indicates some signs of progress in the industry, notably the establishment at Tsingtao of a modern peanut exchange, which has established standards of quality and an inspection service to facilitate dealings.

Improved trans-Pacific transportation from North China ports has been established in recent years. This has caused a great increase in direct exports of peanuts from China to the United States. Prior to 1923 peanuts in large quantities were shipped from China to Japan and reshipped to the United States as declared Japanese exports. Such indirect routing was due to the fact that ocean freight rates from Japanese ports prior to 1923 were much more favorable than from Chinese ports. Now that direct shipments have been made possible by freight rate adjustments, handling costs are considerably reduced.

The United States is the largest single taker of Chinese peanut kernels. The European countries combined, however, take three-fourths of the total export trade in kernels. Tsingtao exporters say the European market is easy to satisfy and the American market very exacting. This is a result of the fact that Europe buys almost entirely for oil extraction, whereas the United States makes much use of peanuts in the

manufacture of peanut candy, peanut butter, salted nuts, peanut cakes and the like. In spite of Chinese civil disturbances, peanut prices have not risen greatly in China, Mr. Nyhus' report shows. Apparently Chinese business is capable of adjusting itself in a surprising manner to the seizure of freight cars by troops and to tribute levied by war lords.

### Petroleum Industry Continues to Maintain Gasoline Supply.

Perhaps the outstanding achievement of the petroleum refining industry during the past 10 years has been its ability to meet the constantly increasing demand for gasoline; that is, to keep pace with the growing use of automobiles, which are estimated to take at least 85 per cent of the total consumption of gasoline, says the United States Bureau of Mines. There are nearly six times as many automobiles today as there were 10 years ago, but total runs of oil to stills in 1925 were only three times those of 1916. The apparent deficit in amount of crude petroleum refined has been compensated by increased yields of gasoline; the percentage recovery has risen from 19.8 per cent of the total crude petroleum run in 1916 to 35.1 per cent in 1925. The increase is due to several factors, chief of which are the development of the cracking process, the larger use of natural-gas gasoline and improvements in refinery practice. In 1925, of the total output of gasoline, 26.4 per cent was attributable to cracking, 7.6 per cent to natural-gas gasoline and probably 2 or 3 per cent to improved fractionation. Had these improvements not been made, the refineries would have had to handle nearly twice the amount of petroleum that was run to stills in 1925.

A complete compilation of petroleum refinery statistics collected by the Bureau of Mines covering the period 1916-1925 has just been published as Bulletin 280. It may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., at a price of 30 cents.

## Extensive Building and Industrial Expansion Program at San Benito.

By J. E. BELL, Secretary-Manager, Chamber of Commerce, San Benito, Texas.

San Benito expects to establish a new building record this year. The largest project under way is the Stonewall Jackson Hotel to cost \$250,000. It will be finished in La Perla brick with stone and tile trim. The contractor is H. J. Hansen & Sons of Brownsville. The Farmers State Bank recently completed a \$200,000 two-story structure, which contains office and store space in addition to the banking offices. It was built by W. A. Orth, San Antonio, after plans by Harvey P. Smith. The American Legion Home is now being built. The \$100,000 Hinkley-Sublett building, the second story of which is to be an annex of the San



A STREET IN THE RIO GRANDE VALLEY AT SAN BENITO.

Benito Hotel, is now being completed. It is a hollow tile and stucco structure, and will contain five store rooms.

The Hope Engineering & Supply Company began work early this month on a pipe line for the Rio Grande Gas Company to supply the entire valley with natural gas. This project will involve the expenditure of several millions of dollars.

A new concrete highway bridge between San Benito and Rio Hondo is being built by Dodds & Wedergarnters. A sewage disposal plant and a city abattoir are being built, and the installation of an incinerator will begin shortly. An extensive program is under way, which when completed

will give the city 23 miles of concrete pavement, said to be the largest amount of concrete paving in any city in the country the size of San Benito. The Missouri Pacific Railroad is spending about \$100,000 on improvements.

The Central Power and Light Company will build here one of the largest filtration plants in South Texas, according to an announcement by Frank C. Ludden, district manager of the company. An ice resale station will also be built by the company. The building formerly occupied by the Farm-offices and salesrooms of the company. It is understood that the utilities company will expend at total of \$200,000.

### Captain Dollar Comments on the Shipping Board.

New York, June 20.—"The Shipping Board must decide whether it is going to stay in or get out of the shipping business. We can't go on this way, and I am sure the board knows it and will soon make known its plans in a way that will make all American shipping men breathe easier." Such were Capt. Robert Dollar's words on a recent visit to New York, where he has been consulting with shipping men following his attendance at the National Foreign Trade Council convention at Detroit.

"We all value the services of the Shipping Board highly," Captain Dollar added, "and I doubt not that most of us would do the same in their place. But the time for a new arrangement of things is at hand. American privately owned and operated shipping lines must expand if they are to live; they must take the whole world for their field of operation. They feel the risk of an actual rivalry with the Shipping Board fleet, and they apprehend that this fleet, if enlarged, would make the hazard still greater.

"We know what the differentials are between us and foreign ships, because many of us, like myself, have operated foreign ships. And we know the margin is going to take all our effort to overcome. But if American shippers will give us an even break and if the Government will make it plain that it is going to enter upon a policy where, stage by stage, it will progressively withdraw and cease to compete with us, we can give the American people the finest merchant marine in the world."

Captain Dollar was very hopeful for pulverized coal as the ships' fuel that may save shipping men in case of an oil shortage.

"I welcome the activity of the Government," he said, "in experimenting with the production and space costs of this new fuel. We have to look far in the future on the sea, and pulverized coal is going to be an important clue to the fuel question.

"Business is fine in the West and full cargoes from the Pacific Coast eastbound are the order of the day; but, going the other way, traffic is slacker, but is picking up. In the world at large Americans now may be assured that the worst of our troubles are over in China. Even during the revolution we have been gaining trade steadily and we are gaining it now. The only cessation came when the Bolsheviks got control of the South China cities. Now they have been thrown out of every city but Hankow, and we are only up against the same civil war question we have been up against for the last 12 years. I think the trade future of China is as great as ever, and American opportunity was never better."

### Sells \$1,000,000 Bonds at Premium.

County Judge Oscar C. Dancy, Brownsville, Texas, wires that Cameron county sold a \$1,000,000 road bond issue to the American National Company of Oklahoma City at par, accrued interest and premium of \$10,780. These bonds will be issued in denominations of \$1000 and will bear an interest rate of 5 per cent.

## Steel Output Last Year Highest in Country's History.

According to the annual statistical report of the steel industry compiled by the American Iron and Steel Institute, a greater quantity of steel ingots and castings were produced in the United States in 1926 than in any previous year. With a total output of steel ingots and castings amounting to 48,293,763 gross tons in 1926, the record production of 45,393,524 tons in 1925 was surpassed by 2,900,239 tons, or more than 6 per cent. The 1926 production was 3,233,156 tons greater than the output of the highest war year 1917.

In 1926, 154 works in 24 States and the District of Columbia made steel ingots, against 152 works in 24 States and the District in 1925. In 1926, 293 works in 34 States, District of Columbia, Alaska, Canal Zone and Panama, made steel castings, against 292 works in 1925.

### Production of Steel Ingots and Castings by Processes, 1915-1926.

Years	Mis-					
	Open-hearth	Bessemer	Cru-	Elec-	cella-	Total
	Tons	Tons	Tons	Tons	Tons	Gross
1915	23,679,102	8,287,213	113,782	69,412	1,527	32,151,036
1916	31,415,427	11,059,039	129,692	168,918	604	42,773,680
1917	34,148,803	10,479,960	126,716	304,543	495	45,060,607
1918	34,459,391	9,376,236	115,112	511,364	329	44,462,432
1919	26,948,694	7,271,562	63,572	384,452	2,952	34,671,232
1920	32,671,895	8,883,087	72,265	502,152	3,535	42,132,934
1921	15,589,802	4,015,938	7,613	169,499	945	19,783,797
1922	29,308,963	5,919,298	28,606	346,039	....	35,602,926
1923	35,899,657	8,484,088	44,079	515,872	....	44,943,696
1924	31,577,350	5,899,590	22,473	432,526	....	37,931,939
1925	38,034,488	6,723,962	19,562	615,512	....	45,393,524
1926	40,678,098	6,948,449	15,493	651,723	....	48,293,763

Steel ingot production in 1926 amounted to 46,936,206 tons, compared with 44,140,738 tons in 1925, while the production of steel castings amounted to 1,357,558 tons in 1926, compared with 1,252,786 in 1925.

In addition to the 57,189 tons of rolled sheet piling reported there were produced by rolling mills and steel works in 1926 about 12,270 tons of fabricated sheet piling, as compared with 14,266 tons of the same kind of piling in 1925.

Of the total production in 1926 about 98.09 per cent was rolled from steel, as compared with about 97.82 per cent in 1925.

In 1926 there were 371 plants in 28 States and the Canal Zone, Panama, which rolled finished forms of iron or steel, as compared with 362 plants in 28 States and the Canal Zone, Panama, in 1925. The total for 1926 includes four plants which were active in 1926 but which were abandoned before the close of that year.

In 1926 the production of all kinds of iron and steel rolled

into finished forms shows an increase of 2,108,932 tons, or 6.3 per cent, as compared with 1925.

### Production of Finished Rolled Products, Showing Iron and Steel Products Separately, Gross Tons, 1915-1926.

Years	Iron	Steel	Total
1915	1,294,833	23,098,001	24,392,924
1916	1,822,571	30,557,818	32,380,389
1917	1,867,757	31,199,943	33,067,700
1918	1,573,976	29,581,778	31,155,754
1919	1,059,451	24,042,093	25,101,544
1920	1,377,566	30,970,297	32,347,863
1921	545,677	14,228,329	14,774,006
1922	905,097	25,546,967	26,452,004
1923	965,597	32,321,479	33,277,076
1924	699,476	27,386,959	28,086,435
1925	727,275	32,659,685	33,386,960
1926	676,854	34,819,038	35,495,892

### Production of All Kinds of Rolled Iron and Steel, by States, Gross Tons, 1924-1926.

States	1924	1925	1926
Maine, Mass.	153,155	161,998	145,360
Rhode Island, Conn.	89,799	133,137	130,914
New York	1,077,379	1,315,132	1,521,596
New Jersey	134,485	191,353	167,083
Pennsylvania	11,101,280	12,460,261	13,632,569
Delaware, Md., Va.	533,160	757,177	831,339
West Virginia	832,389	960,717	889,065
Ky., Tenn., N. C., Ga., Tex.	327,702	449,561	452,968
Alabama	1,008,702	1,196,798	1,287,743
Ohio	6,456,425	7,759,451	7,652,179
Indiana	3,202,387	3,970,945	4,617,521
Illinois	1,980,768	2,564,906	2,620,910
Mich., Wis., Minn.	359,954	476,323	516,799
Iowa, Mo., Okla.	169,542	193,840	196,293
Col., Utah, Wash.	432,650	529,830	575,701
Cal., Canal Zone	217,658	256,531	263,252
Total	28,086,435	33,386,960	35,495,892

### Production of Finished Rolled Iron and Steel by Leading Products, Gross Tons, 1926.

Products	Iron	Steel	Total
Rails	....	3,217,649	3,217,649
Plates and sheets	10,399	10,518,657	10,529,056
Nail and spike plate	80	17,257	17,337
Wire rods	440	2,721,592	2,722,032
Structural shapes	10	3,911,653	3,911,663
Merchant bars	252,437	5,221,399	5,473,836
Bars for reinforced concrete work	1,649	814,180	815,829
Skelp, flue, and pipe iron or steel	189,774	3,574,776	3,764,550
Hoops	....	189,814	189,814
Bands and cotton-ties	1,165	354,761	355,926
Hot-rolled strips and flats for cold rolling	....	1,222,089	1,222,089
Long angle splice bars, tie-plate bars, etc.	51,408	902,155	953,563
Rolled sheet piling, not including fabricated	....	57,189	57,189
Railroad ties	....	13,278	13,278
Rolled forging blooms, forging billets, etc.	1,045	361,705	362,750
Blooms, billets, sheet bars, etc., for exports	187	243	430
Blanks or pierced billets for seamless tubes	....	883,598	883,598
All other finished hot-rolled products	168,260	837,043	1,005,303
Total	676,854	34,819,038	35,495,892

pected to employ approximately 200 people, calling for an annual payroll of \$300,000. The Georgia-Louisiana Company, it is understood, will operate as the Gala Manufacturing Company, its officers to include Mr. Perry, who will become president; Ralph M. Snell, North Agawana, Mass., vice-president; C. Williams, Easton, Pa., treasurer; C. H. Knight, Easton, secretary; W. J. Lawrence, Kalamazoo, and Eli Winkler, New York, directors.

### To Rebuild Bowie Race Course.

Bowie, Md.—Arrangements have been made by the Southern Maryland Agricultural Fair Association, James F. O'Hara, general manager, Baltimore, for rebuilding the grandstand, clubhouse and paddock, recently burned at the race course here. Construction will be of concrete and steel, the grandstand to be 400 by 200 feet, two stories, with concrete floors and foundation and slag roof. The cost will be between \$300,000 and \$350,000, while an additional \$50,000 will be expended for equipment. Fred Wright of Baltimore is the architect and engineer, and it is expected that contracts will soon be awarded.

### Building Chemical Plants for Paper Trade—Atlanta Plant Reported to Cost \$250,000.

According to advices from the Western Paper Makers Chemical Company, Kalamazoo, Mich., that company and the Georgia-Louisiana Company, recently organized in Georgia and associated with it, will build plants adjoining each other in New Orleans for the manufacture of chemicals for the paper industry. The Georgia-Louisiana Company will also build a plant in Atlanta, Ga. Both the New Orleans and Atlanta plants will initially engage in the manufacture of sulphate of alumina, possibly manufacturing other chemicals later. The Western Paper Makers Chemical Company will refine rosin at New Orleans and manufacture rosin size and other chemicals. Construction of both plants will be of brick and tile, with R. S. Perry of New York as engineer in charge of construction. Plans are being prepared by the company's own organization, but it has not been determined as to whether or not construction will be let to contract.

Newspaper reports state that the Atlanta plant will be located on a 12-acre tract adjoining the Furman Fertilizer Works and that it will cost more than \$250,000. It is ex-

## NATURAL GAS DISCOVERED IN ASCENSION PARISH, LA.

### Pressure So Great Derrick Is Blown Down—New Orleans Hopeful of Gas Supply Close to Metropolitan Area.

New Orleans, La., June 17—[Special.]—A natural gas deposit of unusual size and force has been discovered by the Gulf Refining Company at McElroy plantation, in Ascension parish, of this State. The pressure was so great that it blew down the derrick, then tore out the casing, caused a cave-in that swallowed up most of the machinery and finally stopped itself in this way.

The Gulf Company for months has been seismographing in this territory and following around the circle of Lake Pontchartrain in the search for domes in Tangipahoa, St. Tammany, Washington and the other parishes known as the Florida parishes.

Clarence Pate, field manager of the Gulf, says he has heard of wells coming in with a pressure like this, but had never seen one before.

New Orleans is hopeful of getting natural gas. So far it has been depending on the Monroe gas field, in the northern part of the State. The discovery of a possible source of supply not far from what has come to be considered the metropolitan area is therefore of much importance.

### Baltimore Sells \$11,847,000 of Securities.

Two issues of Baltimore city securities aggregating \$11,847,000 were sold by the Commissioners of Finance to the Bankers Trust Company, National City Company, Redmond & Co., E. H. Rollins & Son, Old Colony Corporation, Kissel, Kinnicutt & Co., all New York; Guardian Detroit Company, First National Company, both Detroit; Union Trust Company of Maryland, Baltimore Trust Company, Owen Daly & Co., all Baltimore, and Northern Trust Company, Chicago, on a bid of 98.34995. The amount sold includes \$8,095,000 of 4 per cent coupon bonds and \$3,752,000 of 4 per cent registered city stock, the former figures to embrace \$3,500,000 second sewer serial bonds, \$2,796,000 of paving and bridge serial bonds, \$300,000 of second conduit serials, \$1,040,000 office building serials and \$495,000 of art museum serial bonds. The stock issue will include \$2,021,000 of the second water serial loan and \$1,740,000 of the second school serial loan.

### Contract for Southern Biscuit Plant.

General contract for the construction of a new biscuit and cracker plant has been awarded by the Southern Biscuit Works of Richmond, Va., to the Wise Granite and Construction Company of that city, according to a letter to the MANUFACTURERS RECORD from W. H. Adams, vice-president and general manager of the former company. The plant will be located in the West End, on Mulberry street, north of Broad street and adjacent to the Broad street station of the Richmond, Fredericksburg and Potomac Railroad Company. It will be seven stories, including basement, 100 by 140 feet, of white reinforced concrete, with steel sash, maple floors and tar and gravel roof.

Architecture of the structure will be of the Southern Colonial type, with an adaptation of the classic, to make it one of the most beautiful industrial buildings in the South. It has been designed by Francisco & Jacobus of New York and will be equipped with the most modern baking machinery, including the latest types of refrigerating and humidifying systems. All raw materials will be transported to the top floor by electric elevators and from that floor the manufac-

tured stock will flow by gravity conveyor systems down to the stockroom floor. Reel and traveling ovens are expected to be operated by gas.

The plant has been so designed that its output may be doubled by the installation of additional machinery and the layout is such that, by the construction of additional buildings on the same property, the output may be increased to four times its present capacity.

### Sub-Contractors on \$400,000 Hotel.

B. E. Buffaloe & Co. of Memphis, general contractors for the erection of the \$400,000 Southern Hotel at Jackson, Tenn., advise that sub-contracts have been awarded to the following: Atlanta Terra Cotta Company, terra cotta; Patent Scaffolding Company, scaffolding machines, both of Atlanta; Bartholomew Roofing Company, roofing; Binswanger & Co., glass and glazing; Central Mosaic Marble and Tile Company, marble, tile and terrazzo; Jake Dermon, sheet metal; Fowler Electric Company, electrical work; Miller-Cochran Company, metal doors, all of Memphis; W. G. Bush & Co., brick; Froehling & Robertson, testing; T. L. Herbert & Sons, sand and gravel, all of Nashville; City Lumber Company, millwork; Curtiss Plumbing Company, plumbing; Yandell & Conger, Hermitage cement, all of Jackson; Detroit Steel Products Company, Detroit, Mich., steel sash; Lasar Manufacturing Company, St. Louis, ornamental iron and steel; Walden Paint Company, Florence, Ala., painting and papering, and Willis Manufacturing Company, hollow metal window frames.

As previously announced in the MANUFACTURERS RECORD, the building will be eight stories, 80 by 120 feet, of reinforced concrete construction, and will contain 175 rooms. It will be equipped with two high-speed passenger and one service elevators. R. A. Heavner of Jackson is the architect and equipment will be furnished by Albert Pick & Son, Chicago.

### North Carolina Cotton Manufacturers to Meet in Asheville.

The mid-summer convention of the Cotton Manufacturers Association of North Carolina will be held at Grove Park Inn, Asheville, June 24 and 25. The tentative plans of the program indicate that the meeting will be an important and interesting one since the industry is now in a better position than for several years past and every means will be sought to further co-operation among members to aid in keeping the industry in a prosperous condition. Among the speakers are Edgar Watkins of Atlanta, Dr. G. W. Dyer of Vanderbilt University, and invitations have been extended to Senator Carter Glass of Virginia; Homer L. Ferguson, president of the Newport News Dry Dock and Shipbuilding Company of Newport News, and former president of the National Association of Manufacturers, and W. S. Lee of Charlotte, N. C., vice-president of the Southern Power Company. The Asheville meeting will close with the annual election of officers for the ensuing year.

### \$750,000 Light and Water Improvements at Batesville, Ark.

Batesville, Ark.—Improvements contemplated here by the Arkansas Power and Light Company, of Pine Bluff, which recently purchased the light and water plant at Batesville for \$400,000, will include the construction of a 110 kv transmission line from the company's system, construction of a sub-station at Batesville and rebuilding the distribution system and water system, as well as the construction of extensions to serve industries adjacent to the city. The cost is estimated at \$750,000 and all work will be done by the company.

## Southern Securities in Active Demand.

Transactions in municipal and county bond issues have been very active recently in many sections of the South, with good prices prevailing for attractive securities. This activity is emphasized by the following résumé covering the announcement of bond elections, bonds voted, sold and to be sold.

Turning a sealed-bid sale into an auction, the State of Alabama has sold a \$2,000,000 issue of 4½ per cent bonds to a syndicate headed by the First National Bank of New York, and including the following firms: Chase Securities Corporation, Barr Brothers & Co., Kountze Brothers, Eldredge & Co., Redmond & Co., Phelps, Fenn & Co., Caldwell & Co. and Brandon & Waddell, all of New York. The purchasing bid was 100.56.

Bonds in the amount of \$1,425,000 have been sold by the city of Winston-Salem, N. C., to a syndicate composed of the Illinois Merchants Trust Company and the First Trust and Savings Company, both of New York; the First National Company of St. Louis, and the First National Company of Detroit, at a bid of 100.03. The securities consist of \$1,075,000 of 4½ per cent street, drainage and bridge bonds and \$350,000 of 4¼ per cent water bonds.

A \$250,000 issue of 4¾ per cent road and bridge bonds has been sold by the Norfolk County Board of Supervisors. G. Tayloe Gwathmey, clerk, Portsmouth, Va., to Braun, Bosworth & Co., Toledo, Ohio, at \$250,769.

Bids will be received until July 6 by the Dade County Commissioners, Miami, Fla., for \$2,500,000 5 per cent bonds of \$1000 denomination, funds from the sale to be used for paying constructing and equipping a courthouse now being erected.

An issue of 4½ per cent school bonds in the amount of \$850,000 has been sold by the city of Knoxville, Tenn., Charlton Karns, city manager, to the Harris Trust and Savings Bank, Illinois Merchants Trust Company, E. H. Rollins & Son, all of Chicago, and the American National Bank, Nashville, on a bid of \$864,561.

The city of Amarillo, Texas, has voted three bond issues aggregating \$1,300,000, including \$900,000 of water-works bonds, \$300,000 for sewers and \$100,000 for streets.

Improvement bonds in the sum of \$807,000 have been sold by the city of St. Augustine, Fla., C. G. Oldfather, auditor and clerk, to the Barnett National Bank, Jacksonville, for which it paid \$820,049, the interest rate being 6 per cent.

An election on a \$350,000 bond issue for the erection of a new courthouse at Muskogee, Okla., has been ordered to July 12 by the Board of County Commissioners.

At a special election called by the Eastland County Commissioners, Eastland, Texas, for July 9, voters of Eastland county will ballot on a \$300,000 bond issue to build a new courthouse.

Pensacola (Fla.) school district will vote June 27 on a \$225,000 bond issue.

Bids will be received until June 28 at the office of City Comptroller Landon B. Edwards, Richmond, Va., for \$2,265,000 4¼ per cent bonds, classified as follows: Public improvement, \$1,700,000; gas works, \$300,000; water-works, \$200,000, and public library, \$65,000.

Hancock County Board of Supervisors, Bay St. Louis, Miss., has sold \$425,000 5¾ per cent seawall bonds to Caldwell & Co., Nashville, Tenn., at a premium of \$300.

A bond issue of \$1,425,000 has been authorized by the Board of Aldermen of Winston-Salem, N. C., and it is understood that they will soon be advertised. They will include \$575,000 of street improvement bonds, \$200,000 of sewage bonds, \$75,000 of surface and drainage bonds, \$350,000 of water bonds and \$225,000 of curb and gutter bonds.

Cherokee County Commissioners, Gaffney, S. C., have sold \$500,000 of road bonds to the Title Guarantee Trust Company,

Cincinnati, at par, accrued interest and a premium of \$1900.

Sealed bids will be received until June 28 by the Orangeburg County Highway Commission, Orangeburg, S. C., for the purchase of \$200,000 of road bonds.

Young county, Texas, has voted a bond issue of \$1,200,000 for the construction of approximately 50 miles of road. Some time ago the precinct of Graham, county-seat, voted improvement bonds and work is now in progress. Under the terms of the recent election Graham's bonds will be absorbed in the county issue.

The Commissioners Court of Tom Green County, San Angelo, Texas, will receive bids until July 1 for \$294,000 5 per cent bonds for the erection of a new courthouse.

Wichita Falls Independent School District, W. W. Brown, secretary, will receive bids until June 28 for the purchase of \$250,000 4¾ per cent of school bonds.

Manatee County Commissioners, Bradenton, Fla., have sold to the First National Bank, Bradenton, at par and accrued interest, a bond issue of \$200,000 of 6 per cent bonds for a courthouse and jail.

Selby county, Memphis, Tenn., will vote June 30 on bond issues aggregating \$2,100,000, including \$1,500,000 for roads, \$500,000 for county schools and \$100,000 for the Oakville Memorial Sanitarium.

The city of Macon, Mo., has voted a bond issue of \$165,000 for the construction of a 240-acre lake near the city.

Proposals will be received until July 1 by the town of Fuquay, N. C., for \$150,000 of water and sewer bonds to bear an interest rate not exceeding 6 per cent. The bonds will be issued in denominations of \$1000 and will be dated July 1, 1927, maturing from 1930 to 1964, inclusive.

A petition is being circulated in Lubbock county requesting the county commissioners, Lubbock, Texas, to call an election in the county on a bond issue of \$1,000,000 for roads and bridges. It is understood that a number of important communities in the county favor the movement.

The City Council of Greenville, S. C., has fixed July 12 as the date of an election on a bond issue of \$275,000 for street and hospital improvements. In the event of a favorable vote it is planned to expend \$25,000 for a nurses' home, \$50,000 for a bridge over Reedy River and the remainder for streets and sidewalks.

An election has been called for July 16 by the Webster County Court, Marshfield, Mo., on a bond issue of \$300,000 for the construction of roads and bridges.

A bond issue of \$200,000 of the Pharr-San Juan independent school district has been voted for the erection of school buildings in Pharr and San Juan, both in Texas. Harvey P. Smith of San Antonio is architect for the buildings.

The Commissioners' Court of Haskell County, Haskell, Texas, has called an election for August 6 on a bond issue of \$1,500,000 for the construction of roads.

Highway bonds in the amount of \$950,000, bearing 4¼ per cent interest, have been sold by the State Sinking Fund Commission, Richmond, Va., to the American National Bank of that city at \$958,645.

### Martinsburg Building Ahead of 1926.

Martinsburg, W. Va.—In five months this year more new building work has been undertaken in Martinsburg and Berkeley county than during the whole of 1926. In the city limits permits have been granted for construction work valued at \$652,000. The valuation of permits issued last year was only \$643,000. Two industrial plants, a large high school, dwellings, stores, garages and other building operations feature this year's construction.

## DUKE INTERESTS ACQUIRE UTILITIES PROPERTIES IN TWO STATES.

### Also Agree to Purchase Large Amount of Power to Be Produced by \$20,000,000 Project on Saluda River, S. C.

The General Gas and Electric Corporation last week contracted to sell its properties owned by the North Carolina Public Service Company, a subsidiary, operating in Greensboro and other cities in North Carolina, and also properties operating in and about Spartanburg, S. C., to the Duke Power Company, Charlotte, N. C. The Duke interests also entered into an agreement to purchase a large part of the power to be produced by the Lexington Water Power Company's big plant to be built on the Saluda River and part of the power produced at the Parr Shoals steam-electric plant in South Carolina.

No mention was made of the money value of the properties to be transferred, but it is understood that the deal involved many millions of dollars. It is said that the purchase contemplated in the agreement simply covers the General Gas and Electric Corporation's interests in the properties, and that the corporate existence of the companies will remain as it is. The properties include: The North Carolina Public Service Company, Winston-Salem Gas Company, South Carolina Gas and Electric Company, properties formerly known as the Blue Ridge Power Company and lines of the Broad River Power Company from a point near Union, S. C., to Spartanburg, S. C.

Through the purchase of the North Carolina Public Service Company the following will pass to the Duke interests: (1) The electric distribution systems at Greensboro, Salisbury, Spencer, High Point, Burlington, Graham, Mebane and a number of other towns in the central part of the State. (2) The gas plants and distribution systems at Winston-Salem, Salisbury, Greensboro, Burlington and High Point.

The properties of the South Carolina Gas and Electric Company include the electric distribution system and the gas plant and distribution system at Spartanburg. The Blue Ridge properties include the electric distribution system at Hendersonville and a number of small communities and two hydro-electric plants on the Green River.

The General Gas and Electric management will now concentrate its efforts in South Carolina to further expanding the scope of the Broad River Power Company and to the development of the \$20,000,000 hydro-electric project on the Saluda River, 10 miles west of Columbia, owned by the Lexington Water Power Company.

### Calls Election on \$250,000 Inlet Bonds.

Vero Beach, Fla.—Acting on a petition presented by Sebastian Inlet District, the commissioners of Indian River county have called an election in the district for June 28 on an additional bond issue of \$250,000 for enlarging, lengthening, deepening and widening the inlet, and for the construction of jetties. It is understood that a similar petition has been presented to the commissioners of Brevard county. The election in this county will be held in four voting precincts, including Fellsmere, Wabasso, Roseland and Sebastian.

### Officers for Cotton Bureau Elected.

Montgomery, Ala.—At a meeting here of directors of the Alabama Farm Bureau Cotton Association, Edward A. O'Neal of this city was elected president of the association to succeed John S. Kernachan, who has served for five years. Other officers were elected as follows: R. F. Croom, Evergreen, first vice-president; Will Howard, Prattville, second vice-

president; Allen Northington, Montgomery, re-elected general manager and secretary; Harry S. Houghton, treasurer; W. T. Cooper, assistant secretary; L. H. Fligh, second assistant secretary, and W. R. Lancaster, sales manager, all of Montgomery. Trustees of the Alabama association to serve on the board of the American Cotton Exchange were elected as follows: Edward O. O'Neal, Allen Northington and Clyde Hendrix, Decatur.

### Enlarging Power Plant at Eastland, Texas.

Work is expected to begin in a few days on the proposed enlargement of the power plant at Eastland, Texas, of the Oil Belt Power Company of that city, J. E. Lewis, vice-president and general manager. The company wires that authorization has been made for the installation of a 15,000-kilowatt turbine, with accompanying boilers and condensing equipment. Orders for the work are being handled by the engineering department of the Electric Bond and Share Company of New York. It is stated that a force of 350 men will be engaged and that the work will require about nine months.

### Crown Cork and Seal Company May Sell Assets.

Stockholders of the Crown Cork and Seal Company, Baltimore, will hold a meeting on June 27 to consider a plan to be submitted by the board of directors for the sale of the assets of the company to the New York Improved Patents Corporation, New York, recently organized. The proposed sale will include the good-will and franchise of the company, except its franchise to be a corporation, it is stated. The new corporation also plans to acquire the assets of the New Process Cork Company of Brooklyn, N. Y., it is announced, with all rights, processes and secret formulas, and also a 25 per cent interest in a cork importing business.

### New 56-Mile Transmission Line in Alabama.

Detailing the construction of a transmission line from Union Springs to Newton, Ala., for the Gulf Electric Company, Mobile, which is controlled by the Alabama Power Company, Birmingham, the latter company advises the MANUFACTURERS RECORD that the line will be approximately 56 miles in length, single circuit 110,000 volts, H-frame, wood-pole type, with 397,500 Cm ACSR conductor supported by seven units of Jeffrey-DeWitt insulators in suspension and eight units in the strain. It will have a nominal capacity of 40,000 kva and is scheduled for completion by August 1. All work is being done by the Dixie Construction Company, Birmingham.

### Bids for \$600,000 Hall of Records in Dallas.

Dallas, Tex.—The low bid for constructing the \$600,000 building here for the Dallas County Hall of Records was submitted by Crisman & Nesbit of this city, at \$417,000. The William K. Grace Engineering Company was the low bidder at \$27,000, for the electrical work, and the Hamilton Company, at \$23,700, for the plumbing, both of these being local firms. As recently announced, contract for excavation and foundation work was awarded to the Jopling-Marshall Company, and this work is now in progress, while contract for structural steel has been awarded to Austin Bros., both of Dallas.

The building will be six stories and basement, about 72 by 200 feet, with a 25 by 100 foot ell, fireproof, of steel frame construction with concrete floors. Lang & Witchell, of Dallas, are the architects.

## Construction and Business Activity at New Smyrna, Fla.

By W. B. SMALL, Secretary and Manager, New Smyrna Chamber of Commerce.

A survey recently made by the Chamber of Commerce shows that business is good in New Smyrna. Bank deposits have been steadily climbing since January 1.

New Smyrna has long since been recognized as a fisherman's paradise, but it was only last February that the Chamber of Commerce was able to secure the establishment of a commercial fishing industry, shrimp fishing on a large scale. Starting with less than six boats the fleet finally commanded 69 boats, and in a six weeks' period the shrimp business grossed a turn-over of over \$70,000.

The city of New Smyrna recently purchased 26 acres of waterfront land from the State. This land offers a desirable site to build the new city docks, wharves, packing houses, cold storage, marine railway, club houses, etc., projects of which have been held in abeyance while the city attorney has been clearing away all technical and legal phases pertaining to the sale. City wharves are to be built to accommodate over 100 boats. The public packing plant will be available to individual boat owners and will have a capacity of 200 barrels daily. A cold storage plant now being considered by private local interests will be modern and up-to-date with sufficient capacity to take care of New Smyrna's present and near-future needs.

The Yacht Club sites have already been applied for. The Sons of Leisure and Smyrna Yacht Club each have building plans drawn, and applications in for locations desired. Time warrants are to be issued to defray cost of the fill and the building of the new city docks and wharves, while private outside and local capital will build the other projects.

The new Island Park, the fill for which is completed, covers an area of 10½ acres, supported on the north, south and east by a concrete seawall. The entire park is to be landscaped, all work being under the supervision of Gus Gottschlich of National Gardens. On the north end of the park a boat slip has been built, providing adequate docking for small craft, while north of this slip the west end of the lagoon has been dredged to a depth of 20 feet. When the contemplated dredging is completed in the north and east ends this will give New Smyrna a yacht basin that will provide anchorage for 100 boats of deep draft in addition to the boat slip.

When the present paving work is completed on Magnolia and West Canal streets, John Ahnfelt of the Universal Portland Cement Company, Chicago, is authority for the statement that "New Smyrna will have the only completely concrete paved city in the country with the possible exception of one of the United States Steel Industry's towns."

With the recent completion of the junior-senior high school building, the north causeway and Coronado Beach bridge and steel draw, the waterfront boulevard drive, the Island Park, the beautification of the Lytle avenue parkway, the extension of the whiteway lighting system on Lytle avenue and South Orange streets, the electrical illuminating of the chamber of commerce new home and recreational grounds, and the completing of the yacht basin and boat slip, New Smyrna's civic program ending for the fiscal year, May 1, 1927, will represent an outlay of over \$3,000,000.

A three-story bank and office building was recently completed by the State Bank and Trust Company at a cost of about \$100,000. It was erected by the D. F. Douglass Company, after plans by Espedahl & Espedahl, architects, Daytona Beach, Fla. The exterior is finished in buff face brick trimmed with glazed Atlanta terra cotta. The building contains a banking room 50 by 50 feet, equipped with a mod-

ern reinforced concrete, steel lined vault. A mezzanine floor in the rear of the banking room is located over the main vault. Banking room fixtures are of "Jaune Nile Veine" marble with walnut trim. The lobby floor is of Tennessee marble. The building also contains one large store on the



NEW BUILDING FOR STATE BANK AND TRUST COMPANY.

large floor and 22 modern offices on the second and third floor, served by an Otis elevator.

The D. F. Douglass Company, contractors and builders, have under construction the \$50,000 Masonic Temple of this city. The W. H. Lewis Construction Company reports that the new McCrory five-and-ten-cent store building will be ready for occupancy by the end of June. The East Coast Ice Company, who recently took over the East Coast Milling Company's business, are rebuilding the entire plant; new boilers and compressors are being installed, while the rest of the equipment is being rebuilt or repaired.

From a survey made among the retail merchants, New Smyrna's retail trade is on the increase.

New Smyrna's civic and building program calls for no halt during the summer season. The Chamber of Commerce is promoting several new industries for the city, two of which bear every prospect of becoming a reality in the near future. It is handling more inquiries than ever before for this time of year. It is also distributing 25,000 pieces of advertising literature on New Smyrna and vicinity. It is also arranging for a 14 weeks' amusement program for the benefit of tourists and visitors for the next winter season. For the first time in the history of the city, hotels and apartments are already receiving requests for reservations for the coming winter.

### South's Naval Stores Output Valued at \$54,000,000.

The production value of the South's naval stores industry for the record crop year which closed March 31, 1927, was \$54,000,000. The output amounted to 510,000 barrels of turpentine of 50 gallons each and 1,700,000 barrels of rosin of 500 pounds gross weight. The Southern States furnish approximately 64 per cent of the world supply of turpentine and rosin. Georgia ranks first of all the States, producing about 43 per cent of the country's total output for the past season.

### Norfolk Firm to Build New York Ferry Boat.

Norfolk, Va.—A contract has been awarded by the War Department, Washington, to the Spear Engineers, Inc., of this city for the construction of a steel-hull ferry boat to operate in New York harbor between the Battery and Governor's and Ellis islands. The vessel will measure 128 feet on the waterline and will make 11 nautical miles per hour. It will cost \$207,000 and is to be finished in 357 days.

## PULP AND PAPER PLANT TO BE ERECTED AT HODGE, LA.

### Company Acquires Large Timber Holdings and Railroad—Will Build 45-Mile Pipe Line From Monroe Gas Field.

The MANUFACTURERS RECORD is officially advised that the Southern Advance Bag and Paper Company, Inc., John E. Kelley, president, recently incorporated in Maine, will start construction work on a new pulp and paper plant at Hodge, La., about July 1. All of the company's common stock is owned by the Advance Bag and Paper Company, Inc. The mill will convert about 100 tons of Kraft pulp daily into paper to supply the requirements of the parent company's bag factory at Middletown, Ohio, and to meet the demand for the company's products, for which the existing plants are inadequate. The company has acquired about 67,000 acres of timber lands, together with timber rights on 30,000 additional acres in Northern Louisiana, which it is felt will be sufficient because of the rapid growth of timber in this territory to insure a perpetual supply of wood in excess of the initial annual consumption of the mill.

The North Louisiana and Gulf Railroad, a standard-gauge line 27 miles long, and the Hodge-Hunt Lumber Company have been acquired. A six-inch line will be built on a private right of way to supply natural gas to the mill for generating power and steam for uses in the manufacture of its product. The gas will come from the Monroe field, 45 miles distant, and it is said that owing to advantageous long-term contracts the power cost at the mill will be \$.0025 per kilowatt-hour. A contract for the pipe line has been awarded to the Jordan Drilling Company, Monroe. On the property acquired there is said to be a practically inexhaustible supply of limerock, which is essential in the manufacture of Kraft pulp.

Contracts for the building have not been let, and bids will be received for the work at Hodge. The main factory building will be of concrete and brick, fireproof construction throughout.

The Advance Bag and Paper Company, Inc., whose plants are located at Howland, Maine, and Middletown, Ohio, is said to be the largest producer of strictly all-Kraft grocery bags in the world. It is expected that the Hodge plant will be ready for operation by June, 1928.

### Votes \$294,000 of Bonds for Courthouse.

San Angelo, Texas, June 15—[Special.]—Five per cent bonds in the amount of \$294,000 have been voted by Tom Green county for the erection of a new courthouse here, the securities to mature within 40 years. Tentative plans by Anton F. Korn, Jr., Dallas, call for a two-story building to contain three courtrooms, offices for various departments of the county, fireproof vault for records and space for library. A modern heating system will be installed. B. M. Morgan is the construction engineer.

### To Acquire Morgantown, W. Va., Utility System.

The American Water-Works and Electric Company, Inc., New York, announces that it has entered into a contract for the purchase of public utility systems serving Morgantown, W. Va., including natural gas, electric light and power, street railway and water-works properties. They were owned by the West Virginia Utilities Company, a subsidiary of the Southern Cities Utilities Company, with general offices in Chattanooga. The combined gas, electric and water properties are said to have served more than 15,000 consumers.

The company states that it is probable that the electric light and power, natural gas and street railway properties will become a part of the Monongahela West Penn Public Service Company of Fairmont, W. Va., an operating unit of the West Penn Electric system, Pittsburgh, Pa., which includes all electric, gas and transportation properties of the American Water-Works and Electric Company, Inc.

### FLORIDA ADOPTS A FORESTRY LAW.

#### Its Significance to the State.

By L. M. DRAKE,

The Legislature of Florida has to its great credit, the passing of a bill establishing a Department of Forestry. The voting on the measure very strongly emphasizes the grasp of conditions held by the people of the State; the Senate voting 26 to 6 and the House 59 to 19. This places all States east of the Mississippi under the forest control and leaves one lone State in all the United States, Arkansas, without forest control. Florida can now operate with its first appropriation of \$25,000 in conjunction with Federal aid under the wise Clarke-McNary Forestry law.

The establishment of this department means much to Florida. The State has had enormous wealth in forest products, but they have not been conserved and have rapidly shrunk in volume and value. France is already shipping naval stores into this country from reclaimed barren land. Large areas of Florida forests have been annually swept by fire at great loss. The economic value of forest control and reforestation to a State with its wonderfully long growing period will be enormous. New forests can be grown here more quickly than in any other State. Lumber and naval stores and other forest products have been among this State's greatest resources, and their maintenance now becomes possible. Every large investor knows the value and stability found in abundant forest supply. It is realized more and more that agriculture is absolutely dependent on forested areas; that forests play a large part in the maintenance of favorable climate. All future investments in agriculture and horticulture, manufacturing, transportation, power, mining and general improvement will be made with a greater confidence than ever before.

The great awakening for educational advancement has been State-wide. The needs for research in all the State's abundant natural resources is finding voice. Florida is passing into that stage where it will command national confidence because of economic soundness. The most hopeful sign for any people is found in a wise husbandry of their natural resources. Under forestry laws, fires will be greatly diminished. New forests will spring up; new forests will be planted. Forest areas will be set aside as permanent safeguards to plant and animal life. Forestry will be taught throughout the State in public schools; it will be recognized in the establishment of a forestry school at our State university. In a few years the State will enjoy an entirely new status. It will be well on the way to becoming a large economic factor in the calculations of this great republic. Its easily accessible, peerless climate for the tourist and vacationist will be backed by an economic development of its peculiar and vast industrial possibilities. The Florida Legislature has acted wisely.

### To Complete Five Floors of Hospital.

Fort Worth, Texas.—The board of trustees of the Methodist Hospital here will receive bids until June 29 to complete five floors of the hospital, separate bids to be asked on plumbing and heating. Plans may be obtained from W. G. Clarkson & Co., architects, of this city.

## NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore, we often publish letters with which we do not agree.—Editor Manufacturers Record.]

### Gigantic Branch Banking Operations of Bank of Italy of California.

S. P. PANTON, Big Creek, Cal.

As you probably maintain an interest in the spread of branch banking in this country, I enclose herewith statement of the United Bank and Trust Company of California, which one of its employes tells me he believes will soon be absorbed by the Bank of Italy.

On April 23 I came up by train from Fresno, and had some talk with a Bank of Italy man whom I know very well. He told me the Bank of Italy then had 268 branches in California, and he expected the number would be increased to 300. Harriman of the United Bank and Trust Company told me on June 9 that the Bank of Italy now has over 330 branches in California, and when his bank is absorbed there will be five more.

You may have seen mention in the financial pages of newspapers recently that the Bank of Italy is about to increase its capital stock from its present \$100,000,000 to \$150,000,000, and that, besides the handsome dividends being distributed, there is a fat melon about to be sliced up among the stockholders.

At a meeting of Bank of Italy directors a few weeks ago, one of its chief officials (Ciannini, I think) said it is their ambition to have a chain of Banks of Italy all across the continent. My recollection is that about a year ago it had only 90 branches, but of late it has been gobbling other banks at a tremendous rate. It must be a great boost for the Federal Reserve system, from which so many member banks were deserting by reorganization as State banks and by voluntary liquidation. It has been stated in print that, as the Bank of Italy has become nationalized, all of its branches, heretofore outside of the system, automatically become members of the Federal Reserve system.

It is somewhat startling to realize that the Federal Reserve system, for which the national banks were compelled to supply the capital, is owned by the national banks, dominated as always by the half dozen governing banks of the American Bankers' Association. The Federal Reserve system, properly held to be the most powerful financial combine that ever happened, is simply the tool of said governing banks, and has endowed them with almost absolute control of the national banks at large, especially those that indulge in the rediscounting weakness—also, as you have said, of every transaction of the American people.

### Thinks Our Thunderings Have No Lightning in Them.

M. M. ROCHE, Amarillo, Texas.

I have read a number of your thunderings about the various subjects treated but, they didn't have any lightning in them and didn't strike anything, only as an evidence that some influence other than what would be to the best interest of the masses, was speaking. One thing about all you big fellows, if you would go among the masses and speak their language, you might learn something of what their troubles are. Of course, you would have to disguise yourselves and not let them know who you were, as they are not much on giving out information to the classes only on poverty. They are strong on this subject and when they get an ear they make the most of it unless it is a deaf ear like many of our

people who are satisfied with what they have regardless of what anyone else has. A kind of Don't-care-what-happens-just-so-it-don't-happen-to-them, people, of which there are legion.

The thunderings of the press don't reach much of the population who constitute the large majority, just the few who control and, if their control is just and right, all well and good but, otherwise, all bad, and tends to make the rich richer and the poor poorer. While this seems to be the history of the past, at this enlightened age we should do away with the old ideas of control and replace them with truth and equity. The Golden Rule would never have been spoken if it were not intended to be obeyed.

Just what has the press done for the masses, might be a question for intelligent discussion. Have they warned the masses of the distresses that threaten them? Many of our present organizations, whose principles are good, have fallen far short in their intentions. Selfishness has been the prime cause of this condition, then egotism and so on down to the minor traits. Even the churches are complaining of a lack of interest, and depend largely on their growth through their own membership. This has been disappointing to them to a marked degree. Some very wise people would say we could do without the churches. Is it possible that the baseness of the human mind could conceive such a step? Who would want to live in a country without churches?

Had there been as much effort and propaganda for the agricultural part of our universe as there has been in the commercial life, this would be a country worth while. Commercialism has gone away beyond its ability to hold the position it has attained, and now that the inevitable has shown itself, there are hurrys and scurrys to offset the effect, but don't interfere with my business to do it. Nature is the only sure controlling influence we have and while it is slow it is sure and knows no friends or sympathy. It was put in effect to punish those who disobey its laws. The point is: Base minds put into operation base things and, thrive until nature says stop! and if the press fails to ferret out these base things and appraise the people, it betrays the confidence placed in it. The thing for the press to do is to ask itself: "Have we been loyal, truthful and equitable to the trust our periodicals were established to do?"

### Independence of the South.

C. WHARTON COLLINS, New Orleans.

In one of your recent issues I have had the pleasure of reading an article published by Guy Walker, a New York lawyer, publicist and economist, dwelling upon the disadvantages of the New York field as an effort for Americanism. Mr. Walker's article was really pertinent and at the same time very interesting to me, as well as to many of my friends to whom I have shown it.

Meantime, I have lost the articles and as I desire to obtain an additional copy I would appreciate it if you could furnish me with several duplicates, so I may pass them along to my friends, who have a co-ordination of thought and believe that the South is acting in an apish mood, particularly some of our big Southern cities who seem to think the beginning and end of all effort is in copying New York principles.

I myself have lived in New York for a long period and cannot consequently, after this experience, believe there is any particular relationship between New York and the rest of the States, except through money matters.

## THE IRON AND STEEL SITUATION

### Pittsburgh Steel Market.

Pittsburgh, June 20—[Special.]—The most pronounced feature of the steel trade at the present time is its steadiness, both in the volume of demand and in prices. Whether the market should be called active or quiet depends upon the viewpoint taken. It is quiet in that there is no news of buying that is at all spectacular in character. The large consuming lines are taking steel regularly, but they are buying in smaller quantities than hitherto and some of them are not taking as much steel as last year. The smaller buyers also are placing orders in smaller lots than hitherto. From another viewpoint, that of total tonnages, the market is more active now than a year ago and the demand in the year to date is fully equal to that of last year in the same period.

As nearly as can be guessed now, from information that has come out so far, this year's total steel production will equal that of last year or run a very few per cent ahead. There would then be three record years in a row, but with scarcely any difference between them, and it is hard to say whether these are years of particularly heavy demand or only moderate demand, a basis of comparison being lacking. Steel tonnage is not growing year by year as it used to do, but that may be simply a reflection of the industry having reached maturity.

There is steadiness in steel prices as there is in steel demand. The present rate of steel production is off about 10 per cent from the record high rate of last year, which is less seasonal decrease than occurred last year. Early in April, with a seasonal decline in demand in prospect, there were expectations of prices weakening, but this has not occurred to any extent, either because the decrease has been so light or because individual orders are running so small, or for other reasons. There are various price irregularities in different districts, but they do not increase.

In sheets and strips prices have been very steady in the past few weeks, and as these prices are above prices done some time ago, on deliveries not yet entirely completed, the showing is favorable, and it is increasingly so as old orders are gradually worked off and new buying takes their place. A moderate volume of strip business has been placed for deliveries after July 1 and some sheet business.

Thus far the bituminous coal strike of April 1 has had no influence upon the steel market or upon pig-iron and steel production. There has been an ample supply of coal as is indicated in various ways, one being a slight additional softness in some prices even in the past week or two. The lake coal movement is so well in hand that a continuance of the present rate would complete the whole season's movement by the end of August, with three months of navigation left. The coal trade still thinks, however, that what is called "the real strike" will come later, in July or August. It is said that progress has been made in creating sentiment in favor of striking in non-union fields. The Connellsville coke region had been considered likely territory for non-union strikes, but instead of there being any labor trouble there the demand for coke has decreased, prices are very low, indeed, and there is much idleness. The Connellsville Courier reports show only 36,200 tons of coke produced by the merchant ovens in the week ended June 11, against an average of 70,000 tons a week in March. How conditions have changed from the outlook before April 1 is shown by two facts, that about March 1 steel companies withdrew as sellers of merchant pig-iron, to husband their resources, while lately they have been offering pig-iron and it looks as if one steel company would sell by-product coke for third quarter to merchant furnaces now using Connellsville coke.

The Valley pig-iron market is a trifle more active, but is

still decidedly quiet. Market prices, perhaps not overly firm, remain at \$19 for Bessemer, \$18 for basic and \$18.50 for foundry iron, f. o. b. Valley furnaces.

Heavy melting steel scrap has been sold to a Pittsburgh district steel works to the extent of about 10,000 tons at \$17.75, or 25 cents under the low point of 1926, making the lowest price since 1915, with the exception of a short spell in 1921.

### Birmingham Iron Market.

Birmingham, Ala., June 20—[Special.]—Small lot buying continues but blast furnace interests of Alabama feel encouraged that there will be no necessity for further curtailing of production. Quotations are firm at \$18 per ton, No. 2 foundry. Selling through July is under way with now and then a fill-in order for delivery yet this month. Surplus stock of iron has not been added to in recent months. One of the larger foundry iron producers of the district has less than 1000 tons on yards in the city. Ten blast furnaces are on foundry iron in this state, eight making basic iron, one ferro-manganese and one recarburizing iron and the melt is about equal to this output.

Reduction in the price base of cast iron pressure pipe, at \$34.00 to \$35.00 per ton, six inch sizes and over, was expected to arouse much interest and a little spurt in business is looked for. The market is quiet. There is, however, considerable pipe yet to be manufactured on specifications in hand. These interests are not buying pig iron far ahead. The soil pipe and fittings trade is still slow and overproduction is yet affecting the market. Competition also is very keen.

Noticeable in the iron trade is the activity with foundries and machine shops which have been developing diversification. While the principal lines of endeavor may be showing a little decline the diversified products are going strong. Some of the larger foundries and machine shops are thus in a position to keep busy; the varied products including gasoline pumps, automobile lifts, chemical machinery, coal crushers, cotton presses, soil pipe and fittings, sugar machinery, castings of various kinds.

In steel circles the easing off of demands in some shapes has not caused any great consternation as improvement is noted in other directions. Sheets and plates are in fairly good demand. Wire and nail products are also fairly good while rods are off. Fabricating shops in Birmingham and immediate district report considerable work still in hand. Industrial leaders intimate that a different condition will be noted within 60 days in the steel market and predictions are there will be a wonderful activity.

Statistical review in the Birmingham district for the first five and a half months of the year shows a splendid condition compared to last year. There is little or no difference in the aggregates in many of the products. Pig iron production is about the same so far though a little reduction will be shown on the close of the first half of the year. The steel make will be as good as the first half of 1926, this being accounted for in the fact that there are more open hearth furnaces here now than last year. Coal production is a little under that of the first six months of 1926, the weekly production now being around 365,000 tons. The coke make is also believed to be under that of the same period of a year ago. The Portland cement output has been as good as last year and the clay products make is better.

The strike in the central competitive fields, including Illinois, Indiana, Ohio and Western Pennsylvania, which began April 1 has brought no business to this district. The Mississ-

sippi River flood caused some decrease in the coal business. Transportation companies also reported lowering of their demands. There are, however, prospects of improvement in general conditions and greater production of coal is looked for after July.

Coke demand, so far as foundry coke is concerned, holds good and quotations continue around \$5.50 per ton. Less than 70 bee-hive coke ovens are being operated in this state to meet requirements of those consumers who stick to that class of coke. This product commands \$6.00 per ton.

The scrap iron and steel market shows no improvement. The quotations are low, the market as a whole is weak. Consumers of heavy melting steel are indifferent as to buying and No. 1 cast is being purchased spasmodically. Other items on the old material list show very little activity.

Whatever decline there is in the market conditions in the Birmingham district it is to be observed that there has been no interference with the development work under way, the intentions being to be prepared for greater demands later on. It is estimated that by the end of the year the district will be in a position to increase production in every line of endeavor very materially.

Pig-iron and iron and steel scrap quotations follow:

#### PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$18.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$18.50; iron of 2.75 to 3.25 per cent silicon, \$19.00; iron of 3.75 to 4.25 per cent silicon, \$19.50; charcoal iron, f. o. b. furnace, \$29.00.

#### OLD MATERIAL.

Old steel axles	\$16.00 to \$17.00
Old iron axles	16.00 to 17.00
Old steel rails	12.50 to 13.00
Heavy melting steel	10.50 to 11.00
No. 1 cast	14.00 to 15.00
Stove plate	13.00 to 14.00
No. 1 railroad wrought	11.00 to 12.00
Old car wheels	12.00 to 13.00
Old tramcar wheels	12.50 to 13.50
Machine-shop turnings	8.50 to 9.00
Cast-iron borings	8.50 to 9.00
Cast-iron borings (chem.)	13.00 to 13.50

### The Metal Market.

New York, June 20—[Special.]—The general impression of the metal markets is one of weakness. Additional statistics for May, which came out during the past week, were in the main responsible. Surplus stocks of two of the major metals increased by almost the same tonnage, the metals having been refined copper and refined lead and the tonnage increase having amounted to about 9000 tons.

Surplus stocks of copper in the refined state are the largest since the end of 1924, which is not a good outlook at this time of year, when consumption is naturally more restricted. Copper slipped back in price to 12½ cents per pound, which is the third time this year that this low level has been reached. The other metals have not suffered so extensively from price declines during the week.

The metal producers derive some consolation from the fact that throughout industry low prices are the rule. The composite price of pig-iron, for instance, has just dipped to a figure as low as at any time during the past five years.

The rarer metals are also in a weak state marketwise. Quicksilver fell \$1 per flask to \$116, the lowest quotation in months. Silver, which for the past few weeks had been around 57 cents per ounce, sagged to 56½ cents on Friday. Platinum dropped \$1 per ounce to \$69, a price which has caused severe losses for those dealers who purchased their present supplies at \$100 per ounce or higher.

Among the baser metals, zinc has shown the greatest statistical improvement. World stocks of zinc decreased 1400 tons during May, the first decline in several months, world stocks on June 1 having been 57,100 tons. Conditions are considerably better in the tri-State fields, with ore selling at \$40 per ton, compared with \$38 two weeks ago, and with production considerably curtailed.

Copper has been the most interesting metal of the week,

The power of Copper Exporters, Inc., which is now about eight months old, was demonstrated last week in a conspicuous manner. Thus when copper was selling in the home market at 12.50 cents, delivered to the Connecticut Valley, sales for export were being made at 13.10 cents c. i. f. European ports, which corresponds with a domestic quotation of 12.85 cents. Despite the fact that European consumers were paying the equivalent of ½ cent per pound more than American consumers, sales for export were larger than for home use.

The British continue to complain bitterly of the high price levels maintained by this copper export association and the matter received some discussion last week in the House of Commons, it being pointed out that it is difficult for the British to compete in the world markets on finished copper products when they are compelled to pay more than Americans for their raw material.

The net decline in domestic copper prices during the week was ¼ cent per pound. Business was exceedingly light, there having been a dearth of inquiries and orders. In fact, consumers did not inquire prices even to test the market. Before the issuance of May statistics consumers did not wish to take action until they had the information. Then when the figures came out the unfavorableness of them caused further postponements.

Copper shipments to home consumers in May were the lowest since February, amounting to 69,779 tons. Total deliveries declined at the rate of 554 tons daily from those in April.

The trouble with copper is that the expansion of production has outstripped the expansion in consumption. During the first five months of the year total copper shipments increased 31,000 tons over those for the corresponding period of 1926. At the same time production gained 58,000 tons during this time. Export shipments have increased this year, whereas domestic consumption has fallen off. Despite the decline in the price of refined copper, the brass makers did not revise their prices on finished products downward. The American Brass Company has just revised the nomenclatures of some of their products, to make them more highly descriptive of the products.

The price of zinc was steady the first three days at 6.25 cents per pound, East St. Louis, but by Thursday some sellers were willing to do 6.22½ cents. More buying interest was shown following the concession.

Business in lead was quiet. The leading producers maintained unchanged prices at 6.40 cents per pound, New York, and 6.15 cents, East St. Louis. However, in the outside market, which is more temperamental, some concessions from the official prices were made, amounting to about \$1 per ton. Leading producers did not change prices, despite the weak undertone, since they had refrained from advancing them during the feverish spurt of purchasing, two or three weeks back. The makers of batteries continue to purchase under their usual quotas, as they are using larger quantities of secondary metal in the place of the virgin material.

There was virtually no net change in the price of tin, the price of spot metal being 67½ cents per pound at the close of the week. A premium of 4 cents per pound prevails on spot over September, due to the scarcity. At a time when other metals are the lowest in price for years, the strength of tin is all the more conspicuous. Consumption is constantly a little greater than production and the reserves are continually declining.

The value of the metal has been emphasized of late by the series of robberies of tin from metal warehouses in New York. Last week a truckload of metal was stolen by thieves who believed it tin. However, upon discovering that it was lead, which is worth only one-tenth as much as tin, the truck was abandoned.

## RAILROADS

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### Record-Breaking Freight This Year.

Freight traffic handled by the Class 1 railroads in April totaled 37,101,687,000 net ton miles, according to reports filed by the roads with the Bureau of Railway Economics. This was an increase of 801,527,000 net ton miles, or 2.2 per cent over the corresponding month of last year and an increase of 3,530,924,000 net ton miles, or 10.5 per cent over April, 1925.

For the first four months this year freight traffic amounted to 155,394,137,000 net ton miles, the greatest ever reported for that period in the history of the railroads. This was an increase of 7,344,679,000 net ton miles, or 5 per cent over the best previous record, which was established during the corresponding period in 1926. It also was an increase of 15,910,985,000 net ton miles, or 11.4 per cent over the corresponding period in 1925.

Loading of revenue freight for the week ended June 4 totaled 911,298 cars, according to the Car Service Division of the American Railway Association. This was a decrease of 115,099 cars under the preceding week and was caused principally by observance of the Decoration Day holiday. Since January 1 there have been 22,263,864 cars loaded with revenue freight, which compares with 21,864,675 cars in the corresponding period of 1926 and with 21,360,861 cars in the same period of 1925.

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### Two Texas Lines to Be Merged.

It is proposed, according to a report from New York, to merge the Wichita Falls, Ranger and Fort Worth Railroad, which extends from Jimkurn via Breckenridge and Ranger to Dublin, Texas, 75 miles, with the Wichita Falls and Southern Railroad, which extends from Wichita Falls via Olney Graham and Jinkurn to Breckenridge, 103 miles. The plan is subject to the approval of the Interstate Commerce Commission, and if fulfilled it will give the Wichita Falls and Southern Railroad Company lines extending from Wichita Falls to Dublin, Texas, which connect with the Rock Island system at Graham, with the Texas and Pacific Railway at Ranger and with the St. Louis-San Francisco Railroad and the Missouri-Kansas-Texas Railway at Dublin.

The National City Bank of New York, it is further stated, has owned the entire capital stock of the Wichita Falls, Ranger and Fort Worth Railroad Company, and one of the vice-presidents of that institution, James A. Jackson, is president of the line, the active management of which is conducted by William A. Larsen, vice-president and general manager, at Ranger, Texas. Control of the Wichita Falls and Southern Railroad rests in the hands of Frank Kell, president, Wichita Falls, Texas, and his associates, and it is stated that Mr. Kell will continue to head the management of the merged lines.

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### Strawberries on the Train—and Brain.

When the Frisco Railroad shipped the last car of strawberries of the 1927 crop from its famous Ozark region on June 10, and established a record production season with a total of 1949 cars having total valuation of \$2,750,000 to the growers, it wasn't long until the "tabulation sharks" in the Frisco statistical departments began to spend their noon-hours in computations on strawberry figures.

One figure expert announced that on a basis of 1949 cars of 420 crates each, the Frisco shipped 81,858 crates of berries during the season. His desk-mate continued the figures and announced that with 120 dishes to a crate, a total of 98,229,

600 dishes of Ozark-grown, Frisco-shipped berries had gone into the 26 States and Canada this year.

Still another gentleman used his multiplication tables to figure that with express cars 60 feet long, the 1949 cars of berries would make a single train 22 miles long, and another clerk with visions of strawberries and cream, figured it out that the berries themselves, placed side by side in a single line would stretch for 15,000 miles around the country.

The 1927 crop of berries was shipped to Connecticut, Colorado, Illinois, Indiana, Kansas, Iowa, Louisiana, Maine, Massachusetts, Michigan, Missouri, Minnesota, Montana, New York, Nebraska, North Dakota, South Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, Tennessee, Texas, Utah, Wyoming, Wisconsin and Canada.

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### Lindbergh, Ala., Instead of Coal Creek.

The famous Ace of the Atlantic, Co. Charles A. Lindbergh, will have his family name perpetuated in railway circles, according to an announcement from the St. Louis-San Francisco Railroad in St. Louis, that the station of Coal Creek, Ala., 20 miles west of Birmingham, will be renamed "Lindbergh."

For years a family of that name, relatives of the famous flyer, have been the only residents of Coal Creek other than employes of the railroad, and years ago when the company built its line to Birmingham a pumping station was established at Coal Creek, and Augustus Lindbergh, an uncle of the aviator, was given charge of it. He died in 1909, and then the pumping job was given to his oldest son, Oscar A. Lindbergh, 14 years old, but a few years ago the pump was moved to another place.

Augustus F. Lindbergh, another son, who is now a practicing attorney at Birmingham, Ala., in a letter to the company requested that the name of Coal Creek be changed to Lindbergh, and the change was authorized immediately.

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### Greatest Freight Year on the Mississippi.

The annual report of the Inland Waterways Corporation for the calendar year 1926 to the Secretary of War has been issued by Maj. Gen. T. Q. Ashburn, chairman and executive, Washington, D. C. The corporation operates various subsidiary lines of towboats, barges and terminal facilities known as the upper Mississippi division, the Mississippi-Warrior service (composed of the lower Mississippi division and the Warrior River division) and the Warrior River Terminal Company. The stockholders, it is stated, are all the citizens of the United States. Furthermore, General Ashburn points out that in the year 1900 common water carriage as it formerly existed on the Mississippi River had disappeared; its revival began in the twenties and in 1926 more freight was transported upon the Mississippi River than ever before in its history. The freight for the year was 1,341,578 tons and the total revenue was \$5,179,274, showing a profit of \$219,511. A table showing the results of operation year by year from 1920 to 1926 inclusive appears in the report which is full of other interesting and important facts. Copies may be obtained from the Government Printing Office in Washington at 10 cents each.

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### New Equipment.

Illinois Central Railroad's order for 4500 freight cars was distributed as follows: 500 box cars and 300 hopper cars from the Pullman Car and Manufacturing Corporation; 500 gondola cars from the American Car and Foundry Company; 700 hopper cars from the Standard Steel Car Company; 500

gondola cars from the Illinois Car and Manufacturing Company; 500 box cars from the Mount Vernon Car and Manufacturing Company, and 500 from the Pressed Steel Car Company. This road has also ordered six baggage and mail cars from the American Car and Foundry Company.

Norfolk and Western Railway is reported in the market for 25 mail storage cars.

Rock Island system is reported in the market for 100 composite gondola car bodies of 50 tons capacity.

Kansas, Oklahoma and Gulf Railroad has ordered 5 locomotives of the 2-10-2 type from the Baldwin Locomotive Works.

Baltimore and Ohio Railroad has ordered 275 tons of structural steel from the Mount Vernon Bridge Company and is also reported about to buy 250 tons more.

Chicago, Burlington and Quincy Railroad has ordered 300 tons of structural steel from the American Bridge Company and 100 tons from the Vierling Steel Works.

### Frisco System's Line to Pensacola Being Rapidly Completed.

The physical rehabilitation of the Muscle Shoals, Birmingham and Pensacola Railroad, which has been in progress for about a year, is practically complete and two more months will probably see it all finished, according to a letter to the MANUFACTURERS RECORD from F. G. Jonah, chief engineer of the St. Louis-San Francisco Railroad Company, which owns the line that will give it entrance to the port of Pensacola, Fla. As stated in the MANUFACTURERS RECORD lately, construction work is being rapidly pushed on the extension of the St. Louis-San Francisco Railroad from Aberdeen, Miss., to Kimbrough, Ala., about 150 miles, where the extension will connect with the rehabilitated line. It is expected that by early fall trains will be running on the northern end of the extension from Aberdeen as far as Columbus, Miss., 26 miles, and soon thereafter to Aliceville, Ala., 58 miles from Aberdeen, connection being made at Aliceville with the Alabama, Tennessee and Northern Railroad for Mobile, which is 195 miles from Aliceville. The last-named line now enters Mobile by using the Southern Railway for 30 miles, but it has been authorized by the Interstate Commerce Commission to construct its own line from near Calvert, Ala., to that city.

### Railroad Appointments.

The Southern Railway has appointed district passenger agents as follows: G. C. Robson, Dallas, Texas; C. D. Whitworth, New Orleans, La.; also C. T. Hunt, traveling passenger agent, Jacksonville, Fla.

The Central of Georgia Railway has appointed Edwyn T. Bowen freight service agent at 1101-1102 Traction Building, Cincinnati, Ohio, to succeed the late J. M. Grubbs.

The Seaboard Air Line Railway Company has made changes and appointments effective July 1 as follows: C. E. Muller, assistant freight traffic manager at Jacksonville, Fla., is temporarily transferred to Norfolk, Va.; E. J. Parrish, assistant general freight agent at Savannah, Ga., is appointed assistant freight traffic manager at Jacksonville, with authority over freight traffic matters in that territory and solicitation, service and kindred matters in Florida, excepting industrial development, leases, etc.; R. W. Daniel, assistant general freight agent at Tampa, Fla., is transferred to Savannah; J. W. Booth, assistant general freight agent at Tampa, will take charge of reassigned Tampa territory; F. G. Roberts, division freight agent at Miami, Fla., is appointed assistant general freight agent there in charge of Miami territory; E. P. Mills, district freight agent at Jacksonville, is appointed division freight agent there.

## MANUFACTURERS RECORD

# TEXTILE

### Contract for 50 Mill Dwellings.

Newberry, S. C.—General contract has been awarded by the Oakland Cotton Mills, through the office of Lockwood, Greene & Co., Inc., engineers, Charlotte, N. C., to the Lagrange Lumber and Supply Company, Lagrange, Ga., for the erection of 50 dwellings in the Oakland mill village here. The houses will be one story, of frame construction, with brick foundation, wood floors and Johns-Manville asbestos roofs.

### Plan Organization to Build Mill Houses.

Decatur, Ala.—John W. Knight, Thomas A. Bowles and Charles H. Eyster are working as a committee on details for the organization of a company to erect a number of dwellings here for operatives of the Connecticut Mills Company of Danielson, Conn., for which a textile plant is being constructed at Decatur. As previously announced, the proposed mill will house 32,000 spindles for the production of cord tire fabric for automobiles.

### Opp Cotton Mills Improvements.

Additional details have been announced regarding improvements to be made by the Opp Cotton Mills of Opp, Ala., which plans to erect 40 dwellings for operatives and double the capacity of its mill, as reported in the MANUFACTURERS RECORD of June 2. The mill building will be 106 by 215 feet, of brick construction, to house 5000 spindles and 160 looms. It will cost approximately \$50,000 and new machinery about \$100,000. The capacity will be 17,000 yards of sheetings per day. Robert & Co., Inc., of Atlanta are the engineers.

### Knitting Mills Complete Organization.

Mrs. Lucile A. Howell, secretary of the Chamber of Commerce of Morristown, Tenn., advises the MANUFACTURERS RECORD that the Morristown Knitting Mills, Inc., recently projected, has received its charter and has perfected organization by the election of the following officers: H. F. Trobaugh, president; J. B. Neill, vice-president; J. Hallman Bell, secretary and treasurer, and L. H. Rayburn, manager. The enterprise is capitalized at \$25,000 and is expected to begin production within 60 days, employing 40 operatives. It will manufacture infants' hose exclusively.

### More Details of Great Expansion.

Outlining details of its proposed plant expansion at Amelle, Md., for which \$5,500,000 has been set aside, the Celanese Corporation of America, Arthur J. Fitch, works manager, Cumberland, Md., advises that contract recently awarded to George F. Hazelwood of Cumberland covers the construction of three buildings, with a floor area of 105,000 square feet. They will be of steel and hollow tile construction, on concrete foundations, with special gypsum roofs and maple and concrete floors, and for the most part will be of the saw-tooth roof type, but in some sections will be two or three stories high. The construction cost of these three buildings will be \$175,000. Other additions immediately contemplated in the present building program will contain a floor area of 275,000 square feet.

The Celanese Corporation of America until recently was the American Cellulose and Chemical Manufacturing Company, Ltd., with offices in New York, where the principal offices of the present company are located.

## GOOD ROADS AND STREETS

### Mobile Will Sell \$1,000,000 of Paving Bonds.

Mobile, Ala.—The City of Mobile, S. H. Hendrix, clerk, plans to sell on July 5 a \$1,000,000 issue of 10-year, 5 per cent bonds for paving and improving streets. The bonds cannot be sold at less than par and accrued interest and may not be purchased at private sale. They will be dated June 1, 1927, and will be issued in denominations of \$1000.

### A South Carolina County to Get 70 Miles of Road.

Camden, S. C.—An agreement has been reached by the State Highway Department and the Kershaw County Commissioners, under the terms of which the county will advance \$1,790,000 for the construction of approximately 70 miles of State roads in the county. It is planned to pave route No. 50 from the Richland county line to the Chesterfield county line, by way of Camden and Bethune, a distance of 38.3 miles, and route No. 26 from the Sumter county line through Camden and Westville to the Lancaster county line, a distance of 31.1 miles. Surveys for the relocation of the latter route are expected to be started soon and contracts awarded in the fall. A resolution has been signed by the Kershaw county legislative delegation authorizing the county to issue bonds for the work.

### Louisiana Wants Bids on 55 Miles of Roads.

Baton Rouge, La.—Bids have been invited by the Louisiana Highway Comm. for six road projects, totaling about 55 miles. On June 23 proposals will be received for building a section of 11.72 miles of gravel road on the Oberlin-De Ridder highway in Allen Parish, and one of 11.22 miles of the same highway in Beauregard Parish. Bids will be received until June 28 for 11.18 miles of gravel road on the Jennings-Elton highway in Jefferson Davis Parish; 7.8 miles of shell or gravel construction on the Abbeville-Intracoastal Canal highway in Vermilion Parish, and 6.9 miles of similar construction on the Kaplan Intracoastal Canal highway in the same parish. On July 5 bids will be received for 5 miles of gravel road on the Plain Dealing-Haynesville highway in Webster Parish.

### Many Motorbus and Truck Lines Operate Out of Houston, Texas.

Houston, Texas.—Six motorbus lines operate more than sixty machines daily on routes leading in every direction from this city. In addition there are about forty trucks engaged in freight service to points near Houston. Four round trips daily are made between Houston and San Antonio by the Red J Line, operated by Lloyd T. Jackson. Buses owned by Webb Greer of the Red Star Bus Line make 13 round trips a day to Goose Creek and four trips daily to Sylva Beach. Webb & Young operate a line to Beaumont, the schedule calling for four trips daily. One round trip a day is made by the Green Diamond Line from Houston to Bryan. The White Star Line makes four round trips a day to Freeport. Six trips are made daily to Humble by the Humble Bus Line. The Houston-Huntsville Bus Line operates four machines daily over a route passing through Conroe, Willis and Waverly.

Twelve operators in the freight transportation business use for their terminal the Union Truck Depot on Commerce street. More than thirty trucks run to Richmond, Rosenburg, Conroe, Freeport, Goose Creek, Galveston, Alvin, Angleton, Cleveland and nearby points.

### \$10,000,000 Toll Bridge Proposed for Tampa Bay.

St. Petersburg, Fla.—The construction of an automobile toll bridge over Tampa Bay between Pinellas Point and Piney Point, to cost about \$10,000,000, may be undertaken by Herman Simmonds of this city and associates, who have been granted franchise to operate such a bridge in a bill recently passed by both houses of the legislature. It is stated that plans for financing and building the bridge will be announced as soon as the bill has been signed by the Governor. Tentative plans provide for steel and reinforced concrete structure for vehicular traffic only, to consist of a four-mile span with a causeway one and one-half miles long on either end. It is planned to erect a drawbridge over the channel to Pass-a-Grille similar to that on the Gandy Bridge, while the span over the main ship channel will be more than 135 feet high to meet Government requirements. As toll bridges in Florida are under the jurisdiction of the railroad commission, it is pointed out that the franchise conveys authority to operate such a bridge as a common carrier and does not provide for its construction.

### Kentucky Invites Bids on 90 Miles.

Frankfort, Ky.—Bids will be received until June 30 by the State Highway Commission for 10 road projects covering a total of approximately 94 miles, and for building two bridges. Road work will embrace five projects calling for a total of 34.71 miles of grade and drainage construction; six, covering a total of 49.5 miles of macadam or gravel surfacing, and one project calling for the delivery of crushed limestone along 10 miles of road. The two bridges will include a 90-foot steel span with concrete floor on the Murray-Eggners Ferry road in Calloway county, and a structure on the Whitley City-Somerset road in McCreary county, to consist of one 38-foot and four 22-foot reinforced concrete spans with concrete substructure.

### To Award Contracts for 52 Projects.

Little Rock, Ark.—Contracts are expected to be awarded by the Arkansas State Highway Department within the next three months for 52 road projects, according to an announcement by Dwight H. Blackwood, highway commissioner, and G. Hunter Sykes, chief engineer. Plans and surveys have practically been completed for more than 30 projects and bids will be requested at intervals during the next several weeks, while surveys are under way for the remaining work and contracts are expected to be awarded on these by July or August.

### Ten Projects to Cost \$900,000.

Charleston, W. Va.—A tabulation of bids by the State Road Commission for the construction of 10 road projects shows that the lowest estimate for the entire work will reach a total of more than \$900,000. The 10 projects cover approximately 52 miles and embrace work in the following counties: Greenbrier, Jefferson, Lewis, Pendleton, Wayne and Webster.

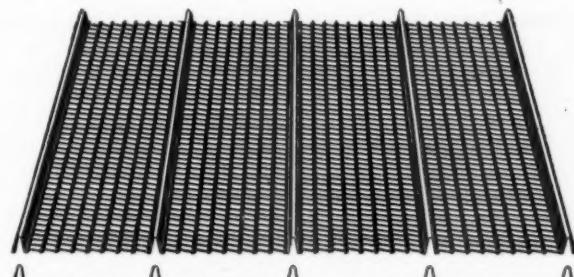
### Votes \$2,900,000 of Road Bonds.

Corsicana, Texas.—By a vote of more than five to one, Consolidated Road District No. 1 in Navarro county has voted a bond issue of \$2,900,000 for the construction of roads. The final count of the ballots showed 2595 votes in favor of the issue and 527 against it.

## MECHANICAL

### Stay Rib Metal Lath for Concrete.

The accompanying illustration represents the new Milcor  $\frac{3}{4}$ -inch Stay-Rib metal lath No. 3 manufactured by the Milwaukee Corrugating Company, Milwaukee, Wis., which they describe as being superior in its particular field of reinforced concrete construction as the No. 1 and the  $\frac{5}{8}$ -inch No. 2 stay-rib metal lath have proved to be in the plastering field



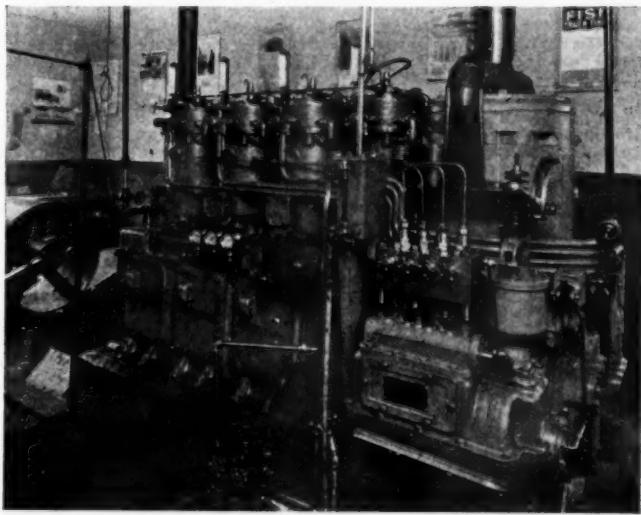
APPEARANCE OF THE NEW LATH.

of usefulness. It is remarked that experienced engineers, prominent architects and capable contractors have expressed this opinion about the new product for concrete work.

This lath is manufactured of either steel, coppered metal or Armco ingot iron as desired, and in three gauges and three weights to meet varying requirements. The height of the ribs is 11-16 inch and they are spaced 6 inches apart from center to center. Covering width of 24 inches the standard lengths are from 4 feet to 12 feet, inclusive. Furthermore, this new product can be furnished, if specified, curved to a complete circle or to any arc at either or both ends.

### Diesel Engine Drive in Ice Plant.

The Wiskow Ice Manufacturing Company of Baltimore have recently made improvements in their plant on Frederick avenue, including the installation of a Diesel engine for driving their ammonia compressor. The engine installed is a



VIEW OF DIESEL ENGINE INSTALLATION.

Bethlehem Diesel engine Type S, 120-horsepower machine, manufactured by the Bethlehem Steel Company.

Originally the compressor was driven by a power unit geared to the fly wheel through spur and ring gear, but the Diesel engine drives the compressor through a belt to the fly wheel. The increased power obtained by this new arrange-

ment has, it is stated, increased the capacity of the ice plant 20 per cent and at the same time the total cost of power to the company has been greatly reduced. In addition to driving the 100-horsepower ammonia compressor the new engine drives a 15-horsepower air compressor and a 15-kilowatt generator, which latter runs all the small auxiliaries and the lights in the building.

The capacity of the plant, which is a model of orderliness and efficiency, is at present 40 tons of ice per day, but other improvements anticipated by the company will possibly include the installation of an additional ammonia compressor with a resulting increase in ice making capacity.

### How a Hauling Problem Was Solved.

An unexpected increase in their business last summer forced the Lewis Ice Cream Spoon Company of Brownville, Maine, to buy an extra supply of white birch, from which their product is made, and consequently brought them up against a serious hauling problem.

The company has always had its lumber cut in New Brunswick and shipped by freight to the factory at Brownville. But when orders for ice cream spoons far exceeded their expectations during the winter and spring, their supply of wood was exhausted and it was necessary to buy another big lot. Because time was an important factor in their production, they bought it as near the factory as possible.

However, the wood had to be transported over a very difficult haul, either 18 miles around a hill, or 5 miles over



MACHINE GOING ALONG MUDDY ROAD.

the hill. The latter trip meant hauling over muddy road on long steep grades, going up one of 7 per cent, which alone was one mile long, and down several sharper ones.

Because of the time limit the company chose the trip over the hill, and looked about for equipment that would do the job. C. E. Herrick, Ford dealer at Brownville, offered to solve their problem easily and economically, with a Fordson tractor equipped with Trackson Full-Crawlers. With the assistance of J. L. Hawes, representative of the Trackson Company, the dealer put on a demonstration, the result being that the Lewis Company immediately bought the outfit and has used it steadily ever since.

The crawler-tractor, in making two trips a day, is doing the work of 8 horses, it is stated, at a big saving in investment and maintenance costs. The Lewis Company would have had to pay \$15.50 for teams, while the Trackson-Fordson costs them only \$8.50 to operate.

The Fort Smith Biscuit Company, C. H. Wortz, president, Fort Smith, Ark., has awarded general contract to the C. J. Patterson Corporation, Kansas City, Mo., for building a new bakery at Fort Smith.

# CONSTRUCTION DEPARTMENT

## EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

## DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

### Airplane Plants, Stations, Etc.

Mo., Kansas City—City, Matthew S. Murray, Director of Public Works, let contract to Hyman Spiteausky, 3229 Victor St., for air field; cost \$14,045; soon let contract for hangars.

Mo., St. Louis—Earl C. Thompson of American Indemnity Co., reported, interested in organizing airplane manufacturing plant with \$500,000 capital.

S. C., Charleston—E. Darrell Jersey, Chf. Engr., Sanitary and Drainage Comm., will construct Riverland Terrace Landing Field on 80-acre tract donated by C. Bissell Jenkins & Sons. 6-2

Tenn., Nashville—City, Hilary E. Howse, Mayor, reported, soon begin work on air port; will soon let contract for hangars, administration building, grading, laying sewerage and other improvements. 4-14

Tex., Houston—City, A. Dee Simpson, Chrmn. of Airport Committee, plans acquiring site for establishing airport, erect hangars.

### Bridges, Culverts and Viaducts

#### Proposed Construction

Ala., Mobile—City, State Docks Coms., Mobile and Ohio R. R. Co., B. A. Woods, Ch. Engr., St. Louis, Mo., and Southern Ry. System, H. W. Miller, V.-P., Washington, D. C., completed plans for 3 mi. viaduct, including approaches over railroad tracks, near Telegraph Road; eliminate grade crossings between Union Station and Telegraph Road; plan receiving bids; C. L. Strange, Constr. Engr. 3-31

Ark., Little Rock—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., St. Louis, requested permission to erect double-track bridge east of Baring Cross structure, recently wrecked by flood; 185-ft. lift span near center, 175-ft. passage, 75-ft. vertical clearance for boats; approximate cost \$1,500,000; F. E. Bates, Bridge Engr., St. Louis. 5-5

Fla., Sarasota—Sarasota County Comms. received low bid from General Construction Co., Broadway and 15th St., Tampa, and 408 Pine St., St. Louis, Mo., at \$121,250 for construction and paving bridge between Longboat and St. Armand Keys; from Bryson Paving Co., Central Ave., Sarasota, at \$84,750, for approaches.

Fla., St. Petersburg—Herman Simmonds and associates granted franchise to operate vehicular bridge to be built across Tampa Bay, from Pinellas Point to Piney Point; tentative plans provide for 4 mi. steel reinforced concrete span with 1½ mile causeway on each side; more than 135-ft. span over main ship channel; plan drawbridge over channel on west side to Pass-a-Grille; cost \$8,000,000 to \$10,000,000.

Ga., Fitzgerald—Representatives of E. M. Elliot and Associates Co., considering constructing bridge over Ocmulgee River at Lambkins Oil Field Ferry. Address Chamber of Commerce.

Kentucky—See Roads, Streets, Paving.

Kentucky—State Highway Com., Frankfort receives bids June 30 for 2 bridges: McCreary County—Whitley City-Somerset Rd., 38-ft. and four 22-ft. reinforced concrete spans, concrete sub-structure; 67,510 lb. reinforcement; Calloway County—Murray-Eggers Ferry Road, 90-ft. steel span, concrete floor, 93,600 lb. structural steel, 9210 lb. reinforcement; plans from E. N. Todd, State Highway Engr. and Dist. Engrs.

Ky., Louisville—Louisville Bridge Com., considering 15-span bridge across Ohio River connecting Louisville and Jeffersonville, Ind.;

Ralph Modjeska Engineering Co., Engr., 220 S. Michigan Ave., Chicago, Ill. See Financial News—Bond Issues Proposed.

La., New Orleans—City, T. Semmes Walmsley, Commr. of Finance, received low bid from H. N. Moody, 815 Perdido St., at \$22,790, for substructure of electrically operated plate girder swing bridge across New Basin Canal at S. Claiborne Ave., including fenders, protection, clusters, operator's house, etc. 6-2

La., New Orleans—Dept. of Public Finances receives bids July 12 for pile bent and I-beam bridge over Florida Ave. canal on axis of upper roadway of Franklin Ave.; improve present bridge over Florida Ave. canal on axis of lower roadway; plans from Pur. Agt., Room 24, City Hall.

Maryland—State Roads Com., Baltimore, receives bids June 28 for 3 bridges: Allegany County—Single 22-ft. span reinforced concrete slab bridge, 17-ft. clear roadway, two 5-ft. sidewalks, Frostburg to Westernport, Midland, Cont. A-46; Washington County—double-span reinforced concrete arch bridge, each span 55 ft. 6 in., with 24-ft. roadway, necessary fill, etc., over Antietam Creek, on Boonsboro-Sharpsburg road, Cont. W-48; Cecil County—single-span steel girder bridge on concrete abutments over P. W. & B. R. at Heislers road, near Charlestown; plans on file; John N. Mackall, Chmn.; L. H. Steuart, Sec.

Miss., Gulfport—Harrison County Board of Supvrs. receives bids July 5 for drawbridge across Back Bay at Popp's Ferry; 17-ft. roadway for 2-way traffic; W. S. Hawkins, Engr. 4-21

Okl., Altus—Jackson County Comms. plan building bridges: Across North Fork of Red River; across North Fork about 8 mi. southwest of Eldorado; across Turkey Creek near Olustee; across Sandy Creek, near Eldorado; across Boggy Creek, near Olustee. See Financial News—Bond Issues Proposed.

South Carolina—State Highway Dept. received low bids for 2 bridges. See Roads, Streets, Paving.

S. C., Greenville—See Roads, Streets, Paving.

Tenn., Johnson City—City and Washington County Comms., Jonesboro, plan overpass for traffic across line of Clinchfield and E. T. & W. N. C. R. R. beyond present East Maple grade crossing, connecting Highland road and leading into King Springs pike; eliminate East Maple St. grade crossing.

Tex., Amarillo—Rock Island Lines, D. B. Davis, Genl. Agt., plans \$1,500,000 bridge and approaches across Canadian River; 2400 ft. long; 152-ft. above water level.

Tex., Austin—Austin Development Co., Scarbrough Bldg., plans bridge across Shoal Creek at 24th St.

Tex., Fort Worth—City, O. E. Carr, Mgr., and Tarrant County Comms. plan viaduct across Lake Worth to replace wooden Nine-Mile Bridge; Dudley Lewis, City Engr., Damon Davis, County Engr. See Financial News—Bond Issues Proposed.

Tex., Victoria—Southern Pacific Co., G. W. Boschke, Ch. Engr., San Francisco, Cal., plans rebuilding Guadalupe Bridge at Victoria.

W. Va., Huntington—City Comms. receive bids July 14 for concrete substructure and steel superstructure, consisting of two 90-ft. and one 170-ft. span, 18-ft. roadway and 5-ft. sidewalk for bridge over Guyan River at Robey Road; A. B. Maupin, City Engr.

#### Contracts Awarded

Mo., Bellefontaine—American Bridge Co., Empire Bldg., 71 Broadway, New York, will furnish 2100 tons structural steel for Alton-

St. Louis Bridge over Missouri River at Bellefontaine.

Texas—State Highway Com., let contracts for 5 bridges. See Roads, Streets, Paving.

Tex., Weatherford—City let contract to S. H. Newton, for 24-ft. wide concrete bridge on Fort Worth St.

West Virginia—American Bridge Co., Empire Bldg., 71 Broadway, New York, will furnish 125 tons structural steel for State bridges in West Virginia.

### Canning and Packing Plants

Fla., Frostproof—Florida Canners, Inc., reported, erect \$50,000 fruit plant. 6-9

### Clayworking Plants

N. C., Charlotte—Marcom Brick and Tile Co., 105 Latta Arcade, capital \$25,000, incorporated; C. B. Marcom, R. G. Williams, W. R. Vernon.

Tex., Amarillo—Pan-Texas Clay Products Co., capital \$15,000, incorporated; Louis Rogstad, George Colby, both Thompson Bldg.; Otto Beyer.

Tex., Bridgeport—Bridgeport Brick Co., increased capital \$320,000 to \$520,000.

### Coal Mines and Coke Ovens

Tenn., Chattanooga—Juliana Coal Co., Birmingham, Ala., John S. Stone, wries; "Juliana Coal Co. is a subsidiary of C. G. Kershaw Contracting Co., now arranging to start coal stripping shovel loading near Tracy City, Tenn.; will install large stripping shovel loading shovel and modern screening plant and washer stop; estimated production 200,000 tons annually; principal office 610 Woodward Bldg., Birmingham, Ala. C. G. Kershaw, Pres. T. M. Porterfield Sec. and Treasurer. Sam Alread, Superintendent, will conduct this business." 6-9

W. Va., Welch—Union Trust Co., Pittsburgh, Pa., reported, acquired Sullivan Pocahontas Coal Co.; including 5 coal tracts and stocks in 7 coal mining companies.

### Cotton Compress and Gins

Ga., Caldwell—Georgia Cotton Growers' Co-Operative Assn., J. Frank Graham, reported, interested in ginnery.

La., Haynesville—J. M. Brown, 210 Milam St., Shreveport, reported, has contract for warehouse for Haynesville Cotton Warehouse Co.; cost \$28,500.

La., Monroe—G. M. Lomax & Co., reported, rebuild entire gin plant, operate by electricity, daily capacity 100 bales cotton; install cleaning process.

Okla., Olney—Farmers Union Co-operative Gin, capital \$25,000; incorporated; J. A. Lane, Albert E. Compton, O. H. Grissom, both Fort Cobb.

Tex., Albernathy—Farm Bureau Gin Co. of Albernathy, capital \$35,000, incorporated; Chris Benn, J. T. Carlisle, C. H. Williams.

Tex., Garrison—A. Stroud, Lufkin, and J. T. Treadwell, Burke, reported, construct \$15,000 gin; capacity 50 bales daily.

Tex., Riesel—Riesel Community Gin Co., capital \$20,000, incorporated; E. W. Punchard, J. W. Fisher, O. A. Barton.

Tex., Roby—Farm Bureau Gin Co. of Roby, capital \$30,000, incorporated; J. M. Stuart, J. C. Hyer, W. D. Roberts.

Tex., Robstown—J. K. Cain, Pres., Arkansas Compress Co., Well Bldg., Corpus Christi, advises adding high density attachment to press here, furnished and installed by Webb Press Co., Minden, La. 6-9

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

**Tex.**, Snyder—J. R. Joyce and Son will rebuild burned gin; cost \$35,000.

**Tex.**, Sylvester—Farm Bureau Gin Co. of Sylvester, capital \$35,000, incorporated; G. M. Lawlis, M. H. Harris, W. K. Dickey.

### Cottonseed-Oil Mills

**Ga.**, LaGrange—LaGrange Cotton Oil Co., capital \$75,000, incorporated; J. E. Duson, Robert Hutchinson, T. C. Bailey.

**Ga.**, Macon—Buckeye Cotton Oil Co., Gwynne Bldg., Cincinnati, Ohio, reported, erect steel tank; cost \$12,000.

**Tex.**, Alpine—Pearsall Cotton Oil Co., reported, construct cotton oil mill.

### Drainage, Dredging and Irrigation

**Ark.**, Pine Bluff—Harding Lake Drainage Dist., R. H. Williams, Chmn., having preliminary plans prepared to construct drainage ditches, flood control system, etc., including pumping equipment; cost \$320,000; E. Hale, National Bldg., G. B. Smith, Citizens Bank Bldg., and E. B. Reynolds, are Engrs.

**Fla.**, Ft. Lauderdale—See Land Development.

**Fla.**, Miami—Turning Basin—United Dredging Co., 343 S. W. North River Drive, reported, has contract to construct turning basin in Miami's harbor at \$198,720. 6-9

**Md.**, Baltimore—Port Development Comsn., receives bids June 29 for dredging harbor, etc. See Want Section—Bids Asked.

**Tex.**, Bishop—Commsrs. of Nueces County, Bishop-Driscoll Drainage District No. 3 receives bids July 6 for canals, drains, ditches, etc. See Want Section—Bids Asked.

### Electric Light and Power

**Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.**

**Alabama**—Alabama Power Co., Birmingham, advises regarding transmission line for Gulf Electric Co. from Union Springs to Newton; line will be approximately 56 miles in length, single circuit 110,000 volts, H. frame, wood-pole type with 397,500 Cm ACSR conductor supported by 7 units of Jeffrey-DeWitt insulators in suspension and 8 units in strain; line will have nominal capacity of 40,000 kw-a; completion by Aug. 1; all work by Dixie Construction Co., Brown-Marx Bldg. 6-2

**Ala.**, Decatur—Alabama Power Co., Birmingham, reported, acquired 153 acres of land.

**D. C.**, Washington—Westinghouse Electric & Mfg. Co., Hibbs Bldg., has contract for furnishing lamp posts.

**Georgia**—Henry D. Lindsley & Co., Inc., E. R. Diggs & Co., both New York; Gorrell & Co., Inc., offering \$1,110,000 Carolina-Gorgia Service Co. first mortgage 6% sinking fund gold bonds. F. B. Adams, Anderson, S. C., vice-president of company gives following: Will acquire business and properties of companies engaged in manufacture and distribution of ice in and around 18 communities in South Carolina and Georgia, within 100-mile radius of Anderson, S. C., including Greenville, Anderson, Greenwood and Aiken, S. C., and Augusta, Gainesville and Cornelia, Ga.; will own and operate 20 ice plants with present daily capacity 800 tons and will increase shortly to 850 tons; properties will be under supervision of Van Rensselaer H. Greene Organization, ice refrigerating engineers and operators.

**Ga.**, Buena Vista—Columbus Electric & Power Co., Columbus Ga. (affiliated with Stone & Webster, Inc.), acquired transmission lines, poles, etc., of municipal light plant and will rent plant according to J. C. Buff, Chmn., Marion County Board of Trade.

**Ga.**, Columbus—Georgia Public Service Comsn., Atlanta, reported, authorized South Georgia Power Co., Albany, to issue \$5,070,000 5 yr. 7% notes.

**Ga.**, McRae—City votes July 26 on sale of light, ice, water and cold storage plant. Address The Mayor.

**La.**, Columbia—City, reported, voted to sell light plant to Louisiana Power and Light Co., Pine Bluff, Ark.; may install water works and build ice plant.

**La.**, Sterlington—Louisiana Power & Light Co., Pine Bluff, Ark., enlarging by 200%

the Sterlington plant; foundation work in charge of Stevens & Wood, Inc., Engrs. and Constructors, 120 Broadway, New York; general design and construction under supervision of Ford, Bacon & Davis, 115 Broadway, N. Y. 4-28

**Md.**, Centreville—Eastern Shore Gas and Electric Co., Salisbury, reported, negotiating for light and power plant.

**Miss.**, Goodman—Mississippi Power and Light Co., Jackson, will rebuild electrical distribution system, install 200 h. p. plant, generate light and power for city and Pickens.

**Miss.**, Yazoo City—Earl Brewer, representing Chicago company, reported, negotiating for municipal light and power plant.

**Mo.**, St. Louis—Grand Boulevard Improvement Assn., Henri Chouteau, Pres., International Life Bldg., reported, install lighting system on Grand Blvd.

**North Carolina**—General Gas and Electric Corp., 50 Pine St., New York, reported, announced that contract had been made to sell properties owned by North Carolina Public Service Co., subsidiary operating in Greensboro and other cities in that State and also properties operating in and around Spartanburg, S. C., to Southern Power Co., Charlotte, controlled by Duke interests; Southern Power Co., reported, contracted to purchase large amount of power from Broad River Power Co. and Lexington Water Power Co., subsidiaries of General Gas and Electric Co.

**S. C.**, Westminster—City planning to install white way. Address The Mayor.

**Tex.**, Brownsville—City receives bids July 1 for one 3000 kw. turbo generator, 5000 kw. turbo generator, complete with condenser, circulating pump and necessary equipment.

**Tex.**, Houston—Read Electric Co., Inc., 3316 Washington St., capital \$20,000, incorporated; J. W. Read, 1711 Huldy St.; C. E. Snidstone, James G. Donovan, Stewart Bldg.

**Tex.**, Houston—Houston Lighting and Power Co., reported, acquired electric distributing at S. Houston, Humboldt and Pelly.

**Va.**, Bedford—Appalachian Electric Power Co., Bluefield, W. Va., reported, supply town with electric lights and power; company will erect 1500 h. p. sub-station at Centrella, cost \$35,000; remodel present substation and build transmission line.

**Va.**, Danville—City voted to retain ownership of gas and electric properties. 5-26

**Va.**, Hopewell—Virginia Electric & Power Co., Richmond, reported, interested in installing white way along Main St.

**Va.**, Ocean View—Otto Wells, Dickinson Bldg., Norfolk, reported, negotiating for properties of Virginia Electric & Power Co.

**W. Va.**, Morgantown—American Water Works and Electric Co., Inc., 50 Broad St., New York City, announced acquisition of public utility systems here, including natural gas, electric light and power, street railway and waterworks properties, formerly owned by the West Virginia Utilities Co., a subsidiary of Southern Cities Utilities Co.; will probably become part of Monongahela West Penn Public Service Co.

**W. Va.**, West Union—Mountain State Utilities Co. has acquired R. J. McConnell mill lot; will erect powerhouse.

### Flour, Feed and Meal Mills

**Ky.**, Paducah—Priester Mills, capital \$250,000, incorporated; J. Priester, P. H. Towle, 21st and Clark Sts.; H. C. Wurth.

**Ky.**, Paris—Kentucky Blue Grass Seed Warehouse and Storage Co., incorporated; Woodford Spears, Edward F. Spears, Chas. S. Spears.

**N. C.**, Danbury—H. H. Williamson, Pine Hall, reported, to rebuild roller mill; recently burned.

### Foundry and Machine Plants

**Fla.**, Jacksonville—Standard Mfg. and Engineering Corp., Box 553, plans establishing and equipping machine shop. See Want Section—Machinery and Supplies.

**La.**, Ferriday—Geo. F. Dillon, of Dillon Machine Shop, reported, construct 2-story machine shop; 50x75 ft., electrically equipped.

**La.**, New Orleans—W. A. Ragsdale Rotary Engine Co., a Mississippi corporation, capital \$500,000, incorporated; A. C. Anderson, Pres., 3622 Canal St., New Orleans; W. A. Ragsdale, 2nd V.P., Grenada, Miss.; manufacture steam engine.

In writing to parties mentioned in this department it will be of advantage to all concerned

**Okl.**, Tulsa—Gasoline Plants—Vulcan Steel Plant Corp., James F. McKelvey, Pres., reported, has under construction plant for manufacture of patented gasoline plant and refinery equipment; plant is to be on 5-acre tract; main erection bay will be 55 ft. width equipped with 15-ton crane for handling of heavier plate work.

**Tenn.**, Cleveland—Tractor Plows—Taylor Plow Co., D. R. Bacon, Pres., will erect plant, 50x80 ft.; corrugated sheet metal construction; concrete floors; metal roof; construction by own force. 6-16

**Tenn.**, Chattanooga—Herron Stove and Foundry Co., capital \$50,000, incorporated; Frank T. Herron, A. B. Adams, Lookout Mountain; H. L. Thatcher, 1910 Central Ave., reported, leased American Brakeshoe and Foundry Co.'s plant on Elm St.

### Gas and Oil Enterprises

**Ala.**, Birmingham—Person Well Drilling Co., capital \$20,000, incorporated; W. L. Person, Irene Peerson, J. T. Peerson.

**Ark.**, Marianna—S. A. McCune, Bartlesville, Okla., will probably receive gas franchise.

**Fla.**, De Land—G. R. Turley, Chmn. of Gas Committee, 115 E. Indiana Ave., advises city is ready to enter into negotiations with such concerns as are able to put in such a gas plant as is needed.

**Fla.**, Hollywood—A and D Gas Oil Co., capital \$10,000, incorporated; Joseph Appelt, W. L. Johnson.

**Fla.**, Homestead—Coral Way Corp., capital \$25,000, incorporated; O. Hill, R. O. Wadleigh.

**Ky.**, Prestonsburg—Bix Six Oil Co., capital \$50,000, incorporated; T. S. Haymond, George Pow, F. C. Crary.

**Louisiana**—Goddard & Co., Inc., New York, and Pittsburgh, Pa., Moore, Leonard & Lynch, New York and Pittsburgh, and Hutchinson & Co., Providence, are offering \$1,500,000 7% cumulative preferred stock of Dixie Gas and Utilities Co.; company incorporated under laws of Delaware, by W. L. Moody, 3rd, O. R. Seagraves, both Houston, and associates to acquire natural gas properties, both producing and distributing in Louisiana, Texas and other states; will acquire all outstanding bonds and capital stock of Marshall Gas Co., and (through a subsidiary) Cedar Grove La., as well as a 31-mi. pipe line from Marshall to Mooringport, La., and all capital stock of State Line Oil and Gas Co., controlling gas lands in Waskom field; Dixie Pipe Line Co., controlled by interests closely identified with Dixie Gas and Utilities Co., formed to build and operate trunk pipe line from Waskom field to Port Arthur and Houston, having daily capacity of approximately 100,000,000 cu. ft. of gas. 6-16

**La.**, Hodge—See Miscellaneous Enterprises.

**La.**, Monroe—New Process Carbon Black Co., Inc., Ouachita Natl. Bank Bldg., reported, granted permit to use 5,000,000 cu. ft. of gas daily in manufacture of carbon black.

**La.**, New Orleans—Gulf Refining Co., Port Arthur, Tex., has discovered natural gas deposit in Ascension parish.

**La.**, New Orleans—New Orleans Public Service, Inc., 201 Barronne St., reported, having investigation for utilization of natural gas in New Orleans made by Ford, Bacon and Davis, Inc., Engrs., 115 Broadway, New York.

**La.**, Rayville—City, Geo. Wesley Smith, Mayor, receives bids July 5 for gas franchise.

**La.**, Sterlington—Sterlington Oil Co., Inc., chartered; D. Y. Smith, Harvey Gregg, Mamie T. Davis, of Monroe.

**N. C.**, Asheville—City Commsrs. authorized Carolina Power & Light Co. to lay gas mains in 10 streets.

**N. C.**, Charlotte—Alex's Place, capital \$25,000, incorporated; C. B. Marecom, Salisbury Rd.; R. G. Williams, N. Davidson St.

**Okl.**, Burlington—Co-operative Oil Co., capital \$10,000; incorporated; Arley V. Lambert, Allen Jenkinson, O. G. Prewett, both of Kiowa, Kan.

**Okl.**, Okmulgee—Empire Refining Co., reported, replace burned equipment.

**Okl.**, Tulsa—Wofford Drilling Co., capital \$50,000, incorporated; B. H. Wofford, W. G. Wofford, 14 E. Independence St.; G. W. Turk.

**Okl.**, Tulsa—Exchange Royalty Co., capital \$50,000, incorporated; Homer P. Lee, Petroleum Bldg., O. F. Macon, W. P. Leblance, of Checotah.

**Tex.**, Lone Star Gas Co., 1915 Wood St., Dallas, reported, acquired all of West Texas if the Manufacturers Record is mentioned.

## CONSTRUCTION DEPARTMENT

gas properties of the Texas Co., 720 San Jacinto St., Houston, including systems in Abilene, Clyde, Baird, Putnam, Cisco, Eastland, etc.

Texas—Moody-Seagraves Co. Inc., Houston, will construct natural gas trunk line in Texas; cost about \$10,000,000; main line 22-in. in diam.; will extend from Northwest Louisiana for 140 miles south to a point near Livingston, Texas, where it will be divided into two branches, one going to Houston, the other to Port Arthur; main line will have carrying capacity of 150,000,000 cu. ft. daily with a 16-in. line with carrying capacity of 100,000,000 cu. ft. daily into Houston, and a line of 50,000,000 cu. ft. capacity into Port Arthur, Orange and other points in East Texas; company has contract to furnish Texas Co., 720 San Jacinto St., Houston, with all its gas for fuel purposes at its refining plant at Port Arthur; pipe ordered and construction begin as soon as surveys are completed; will operate as Dixie Pipe Line Co.; Moody-Seagraves Co. controls Houston Gulf Gas Co., Moody Corp. and Dixie Gas & Utilities Co. 6-23

Texas—United Iron Works, of Midland, reported, has contract for 80,000 barrels steel storage tank for Gulf Production Co. and Landreth Production Co.

Tex., Amarillo—Amarillo Gas Co., H. M. Brown, Vice-Pres., reported, expend \$40,000 for improvements to distribution system.

Tex., Barger—Holland American Gasoline Corp., capital \$500,000; incorporated; E. M. Colchazier, J. J. Patton, Roy Purdue.

Tex., Beaumont—Beaumont Oil and Prospecting Co., capital \$32,000, incorporated; W. J. Parker, 1208 McFaddin St.; Charles Angelo, 1015 Center St.; Y. D. Spell, 2215 Blanchette St.

Tex., Big Springs—L. Whitaker representing Panhandle Gas Co., Amarillo, reported, negotiating for gas franchise.

Tex., Cuero—Southwest Gas Co., Keystone Bldg., Houston, let contract to Sanderson & Porter, 52 Williams St., New York, for pipe line and distribution system; company has franchise in Cuero, Yoakum, Gonzales, Luling and Lockhart. 9-6

Tex., Dallas—Erin Production Corp., capital \$10,000, incorporated; L. M. Ryan, R. C. Snow, V. F. Ryan.

Tex., Dallas—Alexander-Lyles Oil Co., capital \$10,000, incorporated; Wood R. Alexander, G. W. Lyles, 5130 Reiger St.; C. L. Smith, 1133 N. Bishop St.

Tex., Dallas—Nimrod Oil Co., capital \$10,000, incorporated; M. L. Barnett, 1611 Garrett St.; W. V. Lester, C. L. Norsworthy, Southland Life Bldg.

Tex., Dallas—Lake Petroleum Co., capital \$10,000, incorporated; C. S. Magee, M. S. Lake, 5143 Miller St.; W. H. Payne, 2914 Sale St.

Tex., El Paso—El Paso-Amarillo Oil and Gas Co., capital \$150,000, incorporated; J. H. Higdon, 1305 Los Angeles St.; A. W. Norcorp, Two Republics Bldg.; C. R. Morrill, 410 N. Campbell St.

Tex., Fort Worth—Texas Oil and Drilling Co., capital \$50,000, incorporated; O. P. Bush, F. R. Spinnery, P. A. Diggs.

Tex., Goose Creek—Port City Oil Co., Inc., capital \$30,000, chartered; Russell E. Ferrell, S. M. Truzaw, H. A. Nelson.

Tex., Houston—Matagorda Development Co., capital \$30,000, incorporated; George J. Crossland.

Tex., Mt. Pleasant—Mt. Pleasant Oil Co., capital \$60,000, incorporated; J. C. Sparks, O. P. Marshall, W. H. Chadwick.

Tex., Olney—Winton Watkins, Civil Engr., Quanah, reported, making a survey for 44 mi. line for Upman Gas Co., Mt. Vernon, Ohio, extending from Iowa Park to Olney.

Tex., Olney—Upman Co., Mt. Vernon, Ohio, will construct 50 miles pipe, distributing and service lines. See Want Section—Machinery and Supplies. 6-16

Tex., San Benito—Rio Grande Valley Gas Co., considering laying mains for natural gas.

Tex., Seguin—Southern Gas Co., City Nat. Bank Bldg., San Antonio, reported, has 30 yr. franchise.

Tex., Sweetwater—Lone Star Gas Co., 1915 Wood St., Dallas, is considering extension of line to town. 6-9

Tex., Waxahachie—Noah Pierce Oil and Gas Co., capital \$120,000, incorporated; Noah Pierce, W. D. Anderson, R. H. Davis.

Tex., Wichita Falls—Gray County Oil and Gas Co., capital \$300,000, incorporated; Jules Constatine, Jr., 112 Brookside Drive; E. C. Delaune, R. T. Bowen, 2002 Collins St.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## Manufacturers Record

Fla., Fort Lauderdale—J. M. Argo incorporated; J. M. Argo, C. H. Lindfors.

Fla., Gainesville—James Lineham & Co., Inc., incorporated; J. A. Phifer, Jas. Lineham.

Fla., Haines City—Lake Henry Hills, Inc., incorporated; W. C. Turner, Oliver C. Maxwell.

Fla., Jacksonville—James B. Bourne, Jr., Inc., Atlantic Natl. Bank Bldg.; James B. Bourne, Jr., I. Beverly Nalle, 311 W. Forsyth St.

Fla., Jacksonville—Modern Homes Corp., incorporated; Grace C. Johnson, Thomas St.; C. S. Johnson, 224 W. 7th St.

Fla., Jacksonville—Park Street Holding Co., incorporated; W. R. Sargent, 2160 Post St.; W. D. Phillips.

Fla., Lakeland—Tampava Realty Corp., incorporated; Reuben J. Martin, Charles T. Young.

Fla., Miami—Commonwealth Properties, Inc., incorporated; W. L. Evans, James P. Reeder, Jr., both Biscayne Bank Bldg.

Fla., Miami—Aurantia Corp., incorporated; M. B. Garris, Hill Bldg.; O. G. Lindsey.

Fla., Miami Beach—Christine, Inc., incorporated; W. T. Kirkwood, 733 Fifth St.; G. Jetmore.

Fla., Miami—Savannah Dade Corp., incorporated; J. M. Flowers, First Nat. Bank Bldg.; M. F. Baugher.

Fla., Miami—Instrumental Supply Co., Inc., chartered; W. Ross Burton, Olympia Bldg.; Ethel B. Stout.

Fla., Miami Beach—Miami Beach Co., incorporated; W. T. Kirkwood, 733 Fifth St.; G. Jetmore.

Fla., Oviedo—Oviedo Farms and Nurseries, Inc., C. K. Phillips, Pres., will develop 36 acres for farming, bananas and celery; 12 acres cleared, 10 acres under cultivation; erect packing house; expend \$10,000. 6-16

Fla., Pensacola—Saltmarsh Realty Co., incorporated; Thomas W. Saltmarsh, 422 N. Baylen St.; Susie M. Saltmarsh.

Fla., Punta Gorda—Hatch Bros., Inc., capital \$20,000, chartered; M. B. Garris, O. G. Lindsey.

Fla., St. Petersburg—Florida Gulf Coast Land Co., capital \$100,000, incorporated; James R. Bussey, Sam H. Mann, Jr., both Florida Arcade.

Fla., St. Petersburg—Madera Beach Park has 200 acres; will develop 30 acres for amusement park, bath houses and casino, dance pavilion; install concession booths and amusement devices; expend \$200,000. See Want Section—Machinery and Supplies.

Fla., St. Petersburg—Record Holding Corp., incorporated; J. E. Poutre, 1130 Second St. N.; E. D. Poutre.

Fla., Tampa—Friend & Bournier, Inc., chartered; J. W. Bournier, 6807 Central St.; C. T. Friend, 101 W. Michigan St.

Fla., Tampa—Bentley-Trezzvant Florida Avenue Property, Inc., chartered; H. R. Bentley, 608 Tampa St.; Frank Bentley, 1005 Bayshore Blvd.

Fla., Tampa—Knickerbocker Corp., incorporated; Alfred A. Dederer, H. J. Holmes.

Fla., Tampa—Gandy Boulevard Land Co., Thos. C. Hammond, Pres., 417 First National Bank Bldg., has acquired 400 acres; will develop for home sites. 6-9

Fla., Tampa—Trenton C. Collins & Co., 112 Cass St., incorporated; Trenton C. Collins, Ruth P. Collins, Charles B. Owen.

Fla., Tampa—Pontchartrain Corp., incorporated; Emmet Donnelly, Howard M. Nedeau.

Fla., Vero Beach—Stuart Tropical Farms, Inc., chartered; N. M. Hutchison, N. M. Babb, John E. O'Donnell.

Fla., West Palm Beach—Revision Realty Co., incorporated; J. S. Willson, 604 S. Oliver St.; Edgar P. Ettenheim, Danara Arcade; Walter W. Foskett, 30th St.

Fla., West Palm Beach—Crist, Kline & Ryniker, Inc., chartered; J. C. Crist, 212 S. Olive St.; Harry R. Kline.

Ga., Atlanta—Albert F. Young developing Lake Forest subdivision; has completed city improvements on 100 acres; will soon begin work on another section; 500 acres in entire tract.

Ga., Augusta—Marsden C. Hutto, Pres. Hutto Engineering Co., Inc., 515 Lyceaste Ave., Detroit, Mich., has purchased property on Milledgeville Rd., 7 mi. from here; may construct dam to create 30-acre lake and install small turbine water wheel.

Ky., Louisville—Bessire Realty Co., increased capital \$75,000 to \$100,000.

Ky., Shepherdsville—Maraman Realty Co.,

capital \$15,000, incorporated; Conrad Maraman, Roy L. Maraman, Henry Maraman.

La., Lake Charles—Fruitland Heights, Inc., capital \$46,500, incorporated; George B. Morgan, Port Arthur; D. M. Hall, A. G. Coffman.

La., New Orleans—Israel Realty Co., Inc., chartered; Irma I. Moss, M. Israel.

La., New Orleans—Bienville-Jefferson Realty Co., Inc., capital \$100,000, incorporated; Maurice E. Briere, 75 Audubon Blvd.

La., New Orleans—Agnelia Realty Co., Inc., capital \$10,000, incorporated; Joseph Cocl, Paul Montelpre, 2216 Franklin Ave.

La., New Orleans—Talmas-Frey Realty Co., Inc., capital \$50,000, incorporated; Frank Frey, Chas. Talmas.

La., New Orleans—Angelina Realty Co., capital \$10,000, incorporated; Stefano D'Amico, Joseph Cocl, Paul Montelpre, 2216 Franklin Ave.

La., New Orleans—Michel Estates, Inc., capital \$25,000, incorporated; Edmond Michel, 1543 Crete St.; Jos. L. Cabellero, Canal-Commercial Bldg.

Miss., Bruce—See Lumber Enterprises.

Mo., Joplin—New Roanoke Development Co., reported, develop 25-acre sub-division; Hare & Hare, Huntzinger Bldg., Kansas City, Landscape Archts.; install water, sewers, roads.

Mo., Kansas City—Laurel Heights Farm, C. C. Craver & Son, Agent, 1006 Commercial Bldg., being divided into half-acre homesites.

Mo., St. Louis—Carter Realty Co., incorporated; H. Carter, J. T. Price, H. Taylor, 730 Delachaise St.

N. C., Asheville—E. and H. Enterprises, capital \$100,000, incorporated; D. S. Elias, 47 Evelyn Pl.; Clinton K. Hughes, Law Bldg.; Lula B. Williams.

N. C., Biltmore—Biltmore-Oteen Co., capital \$100,000, incorporated; James T. Roberts, W. A. McGeachy, W. L. Crown.

N. C., Concord—T. N. Spencer, Dr. R. Morrison King, reported, interested in developing playground.

N. C., Highlands—Highlands Estate, capital \$200,000, incorporated; J. Q. Person, Alberta Staub, both of Highlands; Henry G. Robertson, of Franklin.

N. C., Highland—Robert P. Jones, Atlanta, Ga., reported, interested in developing of 500 acres for golf course.

N. C., Lenoir—E. S. Draper, Landscape Archt., reported, construct golf course.

N. C., Skyland—Model Homes Corp., incorporated; Alfred S. Bernard, Kester Walton, Francis J. Heazel of Asheville, N. C.

South Carolina—Floral Beach, Inc., 1209 Washington St., Columbia, A. C. Flora, Mgr., has 2200 acres, develop 1200 acres for beach resort and small farms, subdivision, playground, golf course, boat house, lighting system, ice plant, water works, sewers, etc.; expend \$200,000 on improvements; J. R. Urquhart, Palmetto Bldg., Columbia; J. D. Chestnut, Constr. Engr., Floral Beach; L. A. Emerson and Tomlinson Engr. Co., both 1224 Sumter St., Landscape Archts., Columbia; machinery, materials and supplies list ready for distribution in about 60 days.

Tenn., Chattanooga—Cherokee Building Material Co., 700 E. Ninth St., awarded contract by Col. Richard B. Randolph, Supt. of Chickamauga Park System for 700 tons gravel.

Tenn., Chattanooga—E. F. Hubble, 108 E. Seventh St., reported, developing Brainard Park for subdivision.

Tenn., Chattanooga—Eagle Mountain, Inc., capital \$5,000,000, chartered in State of Georgia; John H. Garmany, Pres., Lafayette, Ga.; Wayne L. Tyson, V. P., 25 Broad St., New York City; has tract of 11,000 acres; developing for subdivision has water supply; will construct 2 reservoirs; electric power available from Muscle Shoals site; will organize golf club with clubhouse and 18-hole golf course; macadam road will be constructed 30 ft. wide and 2½ miles long from base to summit of mountain, also road around the brow of the mountain, approximately 21 miles, as well as intersecting roads, built of chert; caves at base of mountain will be developed; install electricity, underground cafe and ball room; W. C. Merrill & Co., Inc., 25 Broad St., New York City, Fiscal Ag't.

Tenn., Chattanooga—McByrde, Black & Reeder, Hamilton Nat'l. Bank Bldg., has 57 acres; develop 35 for sub-division; build and surface roads; extend water and light system; F. H. Dowler, Trustee, 619 Walnut St.

Tenn., Kingsport—Poarch Lumber Co., Inc.,

H. H. Poarch, reported, develop subdivision on Clay and W. Market Sts.

Tenn., Knoxville—Flecken Construction Co., 325 Willow St., has general contract for improvements in 50-acre sub-division of Craig-Cooper-Coffman Co., Inc.; expend \$25,000, 6-in. water mains, 2-in. gas mains, lights, 18-ft. concrete streets, landscaping, etc.

Tenn., Memphis—Ralph L. Jurden, 621 S. Willet St., C. G. Smith, reported, acquired 301 acres adjoining Ridgeway Country Club.

Tex., Cleburne—J. J. Loo and associates of Topeka, Kan., reported, develop 1000-acre pecan orchard.

Tex., Fort Worth—City, reported, plans bond issue for park development. See Financial News—Bond Issues Proposed.

Tex., Houston—Colonial Country Club construct golf course on Main St. Blvd.; John Bredemus, Supv. Engr.

Tex., Longview—Pine Crest Golf Club, G. C. Finch, Sec., will develop 50 acre golf course. See Want Section—Machinery and Supplies.

Tex., McAllen—Montezuma Country Club Estates, C. R. Carnes, Mgr., has 522 acres; will develop 407 for golf course, club house, swimming pool, tennis courts, build streets, bridge across lakes, dredge lakes, etc.; expend \$180,000; B. M. Chalk of Chalk-Eakelsen Co., McAllen, Mechanical Engrs.; will let contract in Sept.

Tex., Quitaone—Valley Land Co. Incorporated; P. O. Woods, H. J. Bailey, Morgan Wright.

Tex., San Antonio—Toudouze Realty Co., capital \$10,000, incorporated; A. C. Toudouze, 113 Main St.; E. J. Toudouze, 105 Neal St.; H. M. Toudouze, 2918 W. Houston St.

Tex., San Antonio—Carruth-Park Inc., Travis Bldg., reported, develop 110 acres for subdivision, install water, sewers, electric and paving.

Tex., Sherman—L. Rosenbaum, 1400 Washington St., Fort Worth, has acquired 23 acres north of Fairview Addition; will develop.

Tex., Sweetwater—City, reported, plans golf course for City Lake Park. Address The Mayor.

### Lumber Enterprises

Ala., Birmingham—Wilder and Summers Co., capital \$10,000, incorporated; J. H. Wilder, Noland Summers, W. K. Summers.

Ark., Rosboro—Caddo River Lumber Co., capital \$2,000,000, incorporated; W. F. Ingham, of Kansas; W. Rosborough, of Rosboro.

Fla., Bradenton—Miller Lumber Co., J. T. Denton, Pres., Jacksonville, reported, acquired sawmill and timber.

Ga., Ochlocknee—Mason Lumber Co., reported, rebuild burned plant.

Miss., Bruce—E. L. Bruce Co., R. G. Bruce, Pres., E. 17th St., Little Rock, reported, construct sawmill with daily capacity of 75,000 ft. of hardwood; company owns large tract of timber land and will develop town of Bruce; is drilling well for water supply, will generate electric power at plant to supply community with light and power; install sewers; portion of lands to be developed for diversified farming.

S. C., Pickens—White Oak Lumber Co., Honaker, Va., reported, moving equipment here; has acquired large timber belt.

Tenn., Memphis—Mississippi Lumber Co., capital \$10,000, incorporated; U. E. McCommon, 75 N. Cox St.; Paul C. McCommon, 1274 Castalia St.; John W. McCall, Bank of Commerce Bldg.

Tex., San Antonio—Star Lumber Co., capital \$11,000, incorporated; Charles B. Brown, 221 Peck St.; Agnes M. Brown, Horace M. Cox, 620 W. Agarita St.

### Mining

Ala., Birmingham—McCullough Copper Co., capital \$10,000, incorporated; John D. McCullough, W. L. McCullough.

Fla., Tallahassee—Capital City Sand and Gravel Co., capital \$200,000, incorporated; H. D. Trawick, C. A. Goldsmith.

Ga., Camilla—Hayes Bros., have extensive quantities of kaolin and silica sand, want information in reference to development.

Tex., Fort Worth—Wells Marble and Granite Co., capital \$10,000, incorporated; Anna B. Wells, W. C. Wells, Oscar H. Cheek.

Tex., Gulf—Texas Gulf Sulphur Co., Walter H. Aldridge, Pres., 41 E. 42nd St., New York, reported, company plans exploration of new deposits which may possibly lead to construction and operation of new plants; company now owns over 3000 acres of land

at Gulf, containing sulphur deposit of 200 to 300 acres in area.

Tex., Mission—Crystal Sand Co., incorporated; E. A. Showers, J. D. Brock, of Dallas.

### Miscellaneous Construction

Ala., Selma—Wharf—City, Mayor, Rowell, reported, interested in constructing street-level wharf.

Ark., Bald Knob—Swimming Pool—Irwin Wynn let contract to Carl L. Garms, 1306 W. 27th St., Little Rock, to construct swimming Pool; 50x130 ft., concrete; will install ladders, slides, diving tower, deep well, pumping outfit, etc.; contract let to Arkansas Foundry Co., E. 6th St., Little Rock, for steel; Big Stone and Material Co., rock and stone; Lehigh Cement Co., for cement. 6-16

Ark., Pine Bluff—Capt. H. B. Hussey, Government Engr., of Vicksburg, rejected bids for repairing breaks in Linwood, Auburn and Frenchtown Levees; may handle by day labor; cost \$10,000.

Fla., Pensacola—Coaling Station—Louisville and Nashville R. R., W. H. Courtenay, Ch. Engr., Louisville, Ky., constructing coaling station; Gould Contracting Co., Contrs.; machinery to be installed by Link-Belt Co., Philadelphia, Pa. and Chicago, Ill. 10-28-26

Fla., Tallahassee—City, Wm. R. Galt, Mgr., receives bids July 2 for garbage incinerator. See Want Section—Bids Asked.

Ga., Tunnel Hill—Nashville, Chattanooga & St. Louis Ry., Nashville, Tenn., Hunter McDonald, Ch. Engr., will construct 1478 ft. standard single track tunnel cost \$500,000, work being done by company's forces; C. H. Johnson, Constr. Engr., 924 Broadway, Nashville, Tenn. 6-9

La., Shreveport—Caddo Levee Board approved construction of levee on Corner Place Front, also considering reconstruction of Shreve Island levee.

Md., Annapolis—Incinerator—City, reported, let contract to United States Reclamation Co. to erect garbage disposal plant; cost \$50,000.

Md., Baltimore—Atlas Pier & Terminal Co., W. G. N. Rukert, Pres., 2126 Edmondson Ave., and George Rukert, Sec., 1636 E. Lombard St., acquired from McCormick & Co. Miller's Wharf on Thames St., including 2 warehouses and 2 wharves; will improve.

Md., Cumberland—Baltimore and Ohio Railroad has under construction \$25,000 subway, Vang Construction Co., Contr. 5-19

Mo., Springfield—Stigall Construction Co., Benton and Talmage Sts., reported, has contract at \$17,800 for grading and excavating for National Ave. subway.

Miss., Bay St. Louis—Seawall—C. F. Lytle Co., Construction Co., Sioux City, Iowa, reported, has contract for seawall at \$800,855; J. W. Billingsley, Const. Engr., Interstate Bldg., New Orleans, La.

Miss., Clarksdale—Levee—Yazoo-Mississippi Delta Levee Dist., reported, voted to rebuild levee at Burke's Landing; cost \$65,000.

N. C., Wilmington—Chief of Engrs. of War Dept., authorized W. A. Snow, Dist. Engr. to proceed with preliminary survey of Cape Fear river from Wilmington to river end to Navassa; purpose of survey to obtain estimated cost etc. of improvements; cost of survey is \$2100. 3-3

S. C., Charleston—Pier—District Engineer, U. S. Engrs. Office, receives bids July 13 to construct 200 linear ft. of creosoted pile and timber pier for extension to Custom House Pier; N. Y. Du Hamel, Dist. Engr., U. S. Army. 6-16

Tenn., Memphis—Terminals—River and Rail Coms., John B. Edgar, reported, interested in additional facilities for Municipal River Terminals and a grain elevator with a minimum storage capacity of 1,000,000 bu.

Tex., Alamo—Pools—Alamo Country Club, Fredericksburg Rd., let contract to W. C. Thrailkill for swimming and wading pools; 35x70 ft., elliptical shape, reinforced concrete; Adams & Adams, Archts., both Builders Exchange Bldg., San Antonio.

Tex., Corpus Christi—Transfer Shed—Nueces County Navigation Dist. No. 1, Robert Driscoll, Chrmn., reported, let contract to Summer-Sollitt Co., Nat'l. Bank of Commerce Bldg., to extend transfer shed at turning basin: 153 ft. wide, 380 ft. long; cost \$102,415; R. J. Cummings, Const. Engr.

Tex., Dallas—Superior Incinerator Co., Wilson Bldg., has contract for incinerator; \$12,000 appropriation.

Tex., Port Arthur—Chamber of Commerce, George N. Bliss, Pres., reported, interested in developing pleasure pier on south bank if the Manufacturers Record is mentioned.

In writing to parties mentioned in this department it will be of advantage to all concerned

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

of canal; construct bulkheads, athletic park, bathing beach.

Tex., Port Arthur—Canal Levee—City, Mayor Logan, let contract to W. F. Warfield Construction Co., of Beaumont, for canal levee from Houston Ave. to Woodworth Blvd.; W. O. Bower, city Engr.; will call later for shell revetment bds. 6-16

Tex., Houston—Docks, etc.—Harris County Navigation Dist., will soon begin improvements to facilities at Port Houston, cost \$1,500,000; including 2 wharves on north side of channel near Turning Basin, addition of 10 miles track to public belt line, improve grain elevator. 12-16-26

Va., Big Stone Gap—W. W. Hughes and J. D. Willis, reported, leased natural tunnel in Scott County, 18 mi. from here; will improve lighting, stairways, etc., and install swimming pool and tourist camp.

Va., Norfolk—City Council, appropriated \$40,000 for dredging municipal dock at Sewall's Point to depth of 32 ft. Address The Mayor.

## Miscellaneous Enterprises

Ala., Birmingham—Tubejoy Patch Co., capital \$30,000, incorporated; Luther Patton, Martin Bldg.; F. D. Floyd, Kathleen Rhea.

Ala., Birmingham—Wittichen Transfer and Warehouse Co., capital \$36,400, incorporated; C. F. Wittichen, 2329 First Ave.; Lee C. Bradley, Jr., Age-Herald Bldg.; B. D. Russell.

Ala., Birmingham—Pan-Alabama Amusement Co., capital \$150,000, incorporated; Hunter M. Smith, 1713½ Second Ave. N.; A. Brown Parks, 1407 N. 20th St.; J. W. Andrews, 219 41st St.

Ala., Birmingham—Alabama Rink Corp., capital \$10,000, incorporated; Lee McGriff, 2028½ First Ave. N.; Albert M. Warnock, Gertrude G. DeArmond, Ridgely Apts.

Ala., Birmingham—Fair Park Amusement Co., capital \$20,000, incorporated; Ralph Fleg, 4325 Cliff Rd.; Coleman Blach, 2226 14th Ave. S.; J. L. Dent.

Ala., Birmingham—Bragg, Millaps & Blackwell, Inc., 1030 Marietta St., Atlanta, L. S. Braggs, reported, erecting first unit of stockyard; 400x140 ft., plans second unit 800x150 ft.

Ala., Birmingham—Knight-Cleveland Metal & Salvage Co., Inc., chartered; H. F. Cleveland, Earle L. Ford, 931 N. 24th St.; R. B. Knight, 8144 Second Ave. S.

Ala., Birmingham—Quick Set Wrench Co., capital \$25,000, incorporated; Howard Graham, L. L. Pettitt, M. M. Graham.

Ala., Florence—Fred I. Thompson and J. L. Meeks, reported, acquired Florence Times News.

Ala., Gadsden—Coy Shelton, Altoona, reported. Interested in creamery station.

Ala., Guntersville—C. W. Woodall and Dr. E. H. Crouch, remodeling building for overall factory.

Fla., Jacksonville—Armour & Co., W. Forsyth St., reported, will enlarge plant for preserving of Florida's fruit and fish.

Ark., Morrilton—Toney and Paul Moll, reported, to erect bakery in Harding College addition; 25x50 ft.

D. C., Washington—Elgin Oil Burner Corp., capital \$70,000, incorporated; Stephen A. Gorman, 4315 39th St. N. W.; Charles C. Gaver, Harold H. Chadwick, 1508 Connecticut Ave. N. W.

D. C., Washington—Blue Diamond Co., 3250 K St., let contract to Walter B. Avery, 632 G St. N. W., to erect building to manufacture wet mortar and plaster by machinery; 3 and 1 story building; 100x150 ft., wood floors, slate roofing; cost \$30,000; will install rug mills, pumps, motors, tanks and slackers; Sturtivant Mill Co., Harrison Sq., Boston, Mass., to furnish equipment; Joseph A. Hall, Archt., 3144 Q St. N. W.

Fla., Belle Glade—Black Fold Packing Co., capital \$10,000, incorporated; W. J. Cowan, Mae Cowan.

Fla., Daytona Beach—Sparkman Printing Co., incorporated; H. C. Sparkman, Dora Sparkman.

Fla., Fernandina—John R. Hardee, Jr., has plans for rebuilding of burned docks and shrimp canning plant.

Fla., Fernandina—South Atlantic Canning Co. will rebuild burned canning plant.

Fla., Kelsey City—Kelsey City Livestock Co., Dr. A. D. Knowles, Pres., Box 96, will erect warehouse 20x40 ft., several smaller buildings and slaughter house; concrete floors, asbestos shingles; construction work

by own corporation and East Coast Finance Corp. 5-26

Fla., Miami—Miami Baking Co., 636 N. W. 24th St., acquired baking plant from G. A. Selig; will make extensive improvements to plant and equipment.

Fla., Miami—Plumbing—Markovitz and Resnick, Inc., capital \$10,000, chartered; Harry Markovitz, 2327 N. Miami Ave.; Sam Resnick, 2335 N. Miami Ave.

Fla., Miami—Mausoleums, etc.—Woodlawn Abbey, Inc., incorporated; J. N. Heath, T. H. Wyllie.

Fla., Miami—Reliable Sheet Metal and Roofing Works, Inc., capital \$75,000, incorporated; Charles Ress, Seybold Bldg.; Harry Rabkow.

Fla., Orlando—Sheet Metal and Roofing—D. A. Routh Co., incorporated; Florence Routh, John W. Sauls.

Fla., Rockledge—Rockledge Press, Inc., incorporated; Charles Reich, Gertrude C. Bourne.

Fla., Sarasota—West Coast Printers, Inc., incorporated; John H. Hayes, J. B. Marston.

Fla., Tampa—Merchandise—Adolph N. Goldstein, Inc., 916 Franklin St., capital \$50,000, incorporated; Adolph N. Goldstein, Sabine Golstein.

Fla., Tampa—Sisal Co. of America, capital \$100,000, incorporated; A. P. Stuckey, L. E. Caldwell; has site; will erect building; manufacture patented cotton sisal stripping machine.

Fla., Tampa—Merchandise—Roberts Boot Shops, Inc., capital \$50,000, chartered; R. Calven McNabb, 314 W. Francis St.; Sherlock T. McNabb, 2906 Highland St.

Fla., Tampa—Ice Cream Cones—Florida Quality Cone Co. incorporated; F. W. Holmes, 404 Joyce Ave.; A. B. Seth.

Fla., Tampa—White Way Laundry, incorporated; J. R. Rich, A. L. Rich, R. F. Uriel.

Fla., Tampa—Seminole Fuel Co., incorporated; J. F. Singleton, 5609 Seminole Ave.; Charles H. Chapman, Garcia & Union Sts.

Ga., Atlanta—Cincinnati Economy Drug Co., R. L. Stall, Gen. Mgr., advises, erecting building on N. E. corner of Cain and Jackson Sts.; 100x100 ft., 1-story of brick over steel, steel constructed saw tooth roof of gypsum slab covered with Barrett roofing; Flager Co., Contr., Red Rock Bldg. 5-5

Ga., Brunswick—Brunswick Laboratories, capital \$25,000, incorporated; Jewell Cook O'Quinn, J. M. Cook, Glenwood.

Ga., Brunswick—Ocean to Ocean Medicine Co., capital \$100,000; incorporated; Dr. W. M. Odum, Dr. Ralph F. Rish, J. P. Bryan.

Ga., Hahira—Gold Leaf Cigarette & Tobacco Co., W. W. Webb, Pres., erecting first unit of cigarette and tobacco factory; 2 stories; built to carry 2 additional stories; 60x120 ft.; reinforced concrete and brick construction; steel windows; install machinery; Greer & Biggers, Archts.; company plans increasing capital \$100,000 to \$1,000,000; plans establishing redrying plants through tobacco belt.

Ky., Danville—Farmers Tobacco Warehouse Co., capital \$30,000, incorporated; J. W. Irvine, J. G. Lynn, M. F. Germann.

Ky., Lexington—Ramsey Sign Service Co., 338 E. Main St., increased capital \$50,000 to \$125,000.

Ky., Louisville—Ritz Beauty Shop incorporated; Ida F. Skeavington, John A. Skeavington, Puritan Apt.; Evelyn Sanders.

Ky., Louisville—American Light Opera Co., capital \$10,000, incorporated; Laurence A. Lambert, Carl Bundschu, Theo Pennington.

Ky., Louisville—Your Market and Grocery incorporated; Ada Snow, Kate E. O'Neal, 224 S. Payne St.; Anna O'Neal.

Ky., Owensboro—Model Baker, capital \$15,000, incorporated; F. F. Stinnett; William O. Jones, J. L. Floor.

Ky., Pineville—Pineville Undertaking Co., incorporated; W. F. Durham, George W. McKee, I. J. Porter.

Louisiana—International Paper Co., offering \$15,000,000 cumulative 7% preferred stock through Hayden, Stone & Co., Old Colony Corporation, Paine, Webber & Co., Estabrook & Co., Baker, Young & Co., Chas. D. Barney & Co., Bodell & Co., Parkinson & Burr; stock issued in connection with acquisition of Louisiana Pulp & Paper Co. and 100,500 common shares of New England Power Association; the company is largest manufacturer of paper in the world and one of the largest holders of water-powers in North America.

La., Hodge—Southern Advance Bag and Paper Co. will start actual construction new pulp and paper plant about July 1; will be 100 tons paper capacity per day; all contract work has not been let; interested contractors should address Hodge, La., where plant will be located. Paper company has bought all holdings including good will, timber and lands of Hodge-Hunt Lumber Co.; they have also bought all stock of the North Louisiana and Gulf Railroad Co. Natural gas will be used for fuel from Monroe gas field. Contract for pipe line has been made with Jordan Drilling Co., Monroe, La.; distance from gas field to Hodge is 45 miles. Main building of factory will be concrete and brick, fireproof construction throughout. This company now operating paper business Howland, Maine, and bag factory Middletown, Ohio. Expect to have Hodge plant in operation by June, 1928. 6-16

La., Kentwood—Kent Dairy Products Corp., Inc., C. A. Kent, Pres., has acquired Kentwood Ice Mfg. & B. Works, Ltd.; Kent Ice Cream Co., 814 S. Grand St., Monroe, La.; Ozark Dairy Products Co., Inc., West Plains, Mo. 5-9

Md., Baltimore—Stockholders of Crown Cork & Seal Co., 1511 Guilford Ave., will vote June 27 on sale of assets to New York Improved Patents Corp., New York; sale provides that purchasing company would undertake to pay Crown Cork & Seal Co. money required to pay of \$3,500,000 bonds, assume liabilities and pay a further aggregate amount which would enable Crown Cork to pay in liquidation \$277 a share on its 9500 shares of stock.

Miss., Brookhaven—Frozen Fruit Pie Co., capital \$10,000, incorporated; Marshall Echols, Louis A. Schleisinger.

Miss., Greenwood—Jordan-Holmes Piano Co., capital \$10,000, incorporated; B. D. Holmes, Ellis Holmes, E. E. Wilkins.

Miss., Jackson—Advertising—Coleman Co., capital \$10,000, incorporated; R. H. Coleman, J. P. Rooney, Pearl D. Stokes.

Mo., St. Louis—Shaw's Garden, George H. Pring, reported, to repair nursery; metal sheets and asbestos shingles will replace glass destroyed by hail storm; galvanized metal sheets for roof; cost \$50,000.

Mo., St. Louis—Kremer & Voiral Construction Co., Century Bldg., has contract for Patterson Baking Co.'s plant; Kraetsch & Kraetsch, Archts., Des Moines, Iowa; Mississippi Valley Structural Steel Co., Arcade Bldg., St. Louis, has contract for 100 tons of steel; company wires: "Plant 2 stories and basement, 120x150 ft.; subcontracts let: Brick, Fred B. Schmitt, 650 Rosedale St.; cut stone, St. Louis Contracting Co., 4417 Clayton St.; composition roofing, Certain-teed Products Corp., 1531 N. 11th St.; steel, Mississippi Valley Structural Steel Co., 3117 Big Bend Rd.; plastering, H. Niehaus, 317 N. 17th St.; bar joist, Truscon Steel Co., Syndicate Trust Bldg.; painting, W. Haile Painting Co., 2928 N. Union St."

Mo., St. Louis—Central Valley Vinegar & Food Products Co., capital \$50,000, incorporated; H. Meredith, P. P. Hoegen, J. C. Jaekel, both Pierce Bldg.

Mo., St. Louis—Merchandise—Spiro-Kerr Co., capital \$20,000, incorporated; G. H. Kerr, 7326 Richmond Pl.; J. R. Riford, 3760 Lindell Blvd.

N. C., Charlotte—American Dry Cleaning Co., 1406 S. Tryon St., let contract to Southeastern Construction Co. for building.

N. C., Davidson—Kubar Manufacturing Co., capital \$100,000, incorporated; Charles E. Barnhardt, 203½ S. Tryon St.; H. M. Barnhardt, both of Charlotte; A. B. Kuhn, Newton, reported, purchased Linden Manufacturing Co.'s plant; will manufacture asbestos and asphalt roof coating, cement, automobile top dressing, and disinfectants.

N. C., High Point—High Point Coffee Co., 207 W. High St., capital \$100,000, incorporated; Carl M. Cox, 306 Steele St.; Carson C. Cox, Carl A. Moore, both of Thomasville.

N. C., High Point—Totty Mercantile Co., capital \$100,000, incorporated; W. L. Totty, 1008 Lindsay St.; Nettie M. Totty, A. L. Belflower.

N. C., New Bern—City will install motor pumper for fire fighting equipment; cost \$13,950, made by Seagrave Co., Columbus, Ohio.

N. C., Statesville—Merchandise—Kelly Field Co., capital \$14,000, incorporated; Fred Field, J. B. Cooper, W. S. Kelly.

Okla., Blackwell—C. E. Wilson Gasoline Co., incorporated; C. E. Wilson, J. H. Lane, P. Butler.

Okla., El Reno—Ralph Swartz, reported, to repair fish plant.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Oklahoma, Okmulgee—Wilk-Houchin Optical Co., 214 W. Main St., capital \$15,000, incorporated; J. M. Wilk, L. L. Houchin, R. A. Dieman.

Oklahoma, Tulsa—Tulsa Amusement Co., Inc., W. P. Falkenberg, Mgr., Box 1985, started work on amusement park; install \$250,000 equipment, ballroom, roller coaster, etc. See Want Section—Machinery and Supplies.

Oklahoma, Tulsa—Turnbuckle Rig—Guy Slater, 60 N. Gillette St., and Harry Slater erecting 7 buildings; to be 16x20 ft., 26x30 ft., 75x100 and 26x80 ft.; and 3 to be 76x24 ft., will cover 10 acres; individual shops will be woodworking, patterns, blacksmithing, structural work, painting, materials, etc.

Oklahoma, Tulsa—International Petroleum Express, J. Burr Gibbons, Gen. Mgr., 63 N. Madison St., plans water lines, gas, electricity, grading and landscaping of building grounds.

Oklahoma, Tulsa—Electrical Specialties, capital \$25,000, incorporated; George B. Rodgers, Atlas Life Bl.; J. C. Binning, 2327 S. Cincinnati St.; Gerald F. O'Brien, Court Arcade Bldg.

Oklahoma, Tulsa—Torbett-Temple Laundries, 1 N. Xanthus St., will erect \$16,000 cleaning plant; cost \$16,000; W. D. Blacker, Archt., 1152 S. Trenton St.

S. C., Columbia—Tobacco—George A. Averines, Inc., capital \$10,000, incorporated; Geo. A. Averines, M. B. Munro.

S. C., Columbia—Carolina Laundries incorporated; John A. Young, 203 Water Ave.; Sam F. Thomason, 1808 Hampton Ave.; Henry W. Fair, 1631 Green St.

S. C., Florence—Food Products—W. H. Snyder & Co., capital \$20,000, incorporated; E. P. Sallenger, W. H. Snyder.

S. C., Summerville—Carolina Hotel Co., capital \$50,000, incorporated; Thomas R. Moore, Wilfred Moore.

Tenn., Carthage—W. B. Ford, H. B. McGinnis, and Associates, reported, considering milk plant.

Tenn., Chattanooga—Blackman Stock Remedy Co., capital \$50,000, incorporated; T. J. Moore, 492 S. Crest Rd., Ed. T. Turner, 324 E. Ninth St.; Nannie N. Norman.

Tenn., Chattanooga—Stone Fort Land Co., let contract to Selman-O'Brien Co., 670 Georgia St., for milk depot; 50x100 ft., 1-story, brick.

Tenn., Cleveland—Taylor Plow Co., incorporated; D. R. Bacon, Benton, W. T. Moore and Hal B. Moore, both Cleveland, reported, erect 2 buildings; one will be 125x50 the other 50x50 ft., and have acquired buildings on S. Warehouse St.; patented plows.

Tenn., Covington—J. T. Fargason Grocery Co., increased capital \$50,000 to \$100,000.

Tenn., Kingsport—Sanitary Dry Cleaning Co., Inc., chartered; H. C. Massengill, W. D. Sansabaugh, N. P. Gruber.

Tenn., Lebanon—Stone Freeman-McClain, Inc., capital \$15,000, incorporated; Belle Freeman, M. C. Freeman, H. M. Freeman.

Tenn., Memphis—Mathis Drug Store, Inc., capital \$325,000, incorporated; J. S. Borg, Harry M. Adams, Fidelity Bank Bldg.; L. F. Mathis.

Tenn., Memphis—Delta Cotton Co., capital \$50,000, incorporated; W. S. Roberts, 1555 Vinton Ave.; J. H. Dubose, Cotton Exchange Bldg.; W. S. Roberts Jr.

Tenn., Milan—Carter's Pharmacy, capital \$10,000, incorporated; Otis E. Carter, David H. Wynot, R. C. Thompson.

Tenn., Ripley—Ripley Canning Co., Frank Craddock, reported, erecting 2-story brick sweet potato house; 40x150 ft.; a capacity of 30,000 bus.

Tex., Amarillo—Glove-News Publishing Co., increased capital \$150,000 to \$450,000.

Tex., Beaumont—Beaumont Rice Mills, Clyde E. Broussard, Pres., 1805 South St., will install machinery for packing 1000 pockets of rice a day into sanitary, sealed packages.

Tex., Belton—J. E. Laney of Cooledge and F. B. Russell of Teague, reported, purchased Belton Journal.

Tex., Corpus Christi—Merchandise—The Elite, incorporated; H. McLean, 906 Lower N. Broadway, D. D. Craig, H. J. McLean.

Tex., Dallas—United Heater Corp., 841 W. Davis St., increased capital \$10,000 to \$16,000.

Tex., Dallas—Pure Food Products, Inc., 718 Leonard St., increased capital, \$5000 to \$30,000.

Tex., Dallas—Dexter Construction Co., capital \$150,000, incorporated; Muriel R. Dexter, J. F. Dexter, N. Texas Bldg.; J. S. Bearchamp.

Tex., Dallas—F. and W. Grand 5-10-25-Cent Stores, Inc., capital \$25,000, incorporated; John N. Touchstone, Al'n Wight, Both Magnolia Bldg.; Henry W. Strasburg, 3218 Oliver St.

Tex., Dallas—Southwest Golf Equipment Co., increased capital \$25,000 to \$50,000.

Tex., Dallas—Columbia Mills, Inc., 225 5th Ave., New York, leased building at 2405 S. Harwood St., as distributing branch for shade cloth and window shade plant.

Tex., Dallas—Merchandise—Buchwald-Drews, Inc., capital \$25,000, incorporated; Ernest Buchwald, Frank Drews, 5815 Morningside st.; D. E. Hawkins, 4612 Wiss St.

Tex., El Paso—Fort Bliss Dairy Co., capital \$15,000, incorporated; W. W. Hawkins, 2621 Pershing Drive; A. A. Ross, R. O. Ross.

Tex., El Paso—El Continental Publishing Co., 216 S. Campbell St., changed name from El Continental; increased capital \$75,000.

Tex., Fort Worth—McDuff Clothing Co., capital \$10,000, incorporated; J. H. Shaw, C. B. Shaw, 315 S. Calhoun St.; M. McDuff, 1704 Belmont St.

Tex., Fort Worth—Canals, etc.—Ro-Mar Co., Inc., incorporated; Charles F. Roemer, Fort Worth Club Bldg.; T. T. Pendleton, W. A. Moncrief.

Tex., Greenville—Louisiana Railway and Navigation Co. of Texas, increased capital \$200,000 to \$400,000.

Tex., Harlingen—Fruits, etc.—C. D. Wallace Co., capital \$10,000, incorporated; C. D. Wallace, F. O. Wallace, J. P. Chastain.

Tex., Highland—E. and H. Light and Water Co., incorporated; J. W. Garth, Jr., M. M. Robertson, Thomas Garth.

Tex., Hillsboro—Texas Cheese and Butter Co., R. B. Hill and W. F. Gordon, representatives, reported, interested in erecting cheese factory.

Tex., Houston—Roofing—Hedges Co., 1910 Runnels St., H. H. Hedges, Pres., will probably erect building.

Tex., Houston—Overley Production Co., increased capital \$40,000 to \$65,000.

Tex., Marshall—Borden Co., 350 Madison Ave., New York, reported, considering erecting of milk condensary.

Tex., New Waverly—Merchandise—W. D. Falkner and Co., capital \$10,000, incorporated; W. D. Falkner, H. S. Robertson, R. G. Cherry.

Tex., Pharr—Pharr Drug Store, capital \$10,000, incorporated; A. A. Kelley, B. F. Johnson, Lillian M. Johnson.

Tex., San Antonio—Merchandise—San Antonio Houndaille Co., capital \$10,000, incorporated; F. M. Coleman, Brady Bldg.; J. C. Borden, J. A. Hall, 839 Fulton St.

Tex., San Antonio—San Antonio Style Show, Inc., incorporated; Henry Carr, 422 E. Park St.; Harry Half, 1536 N. Huisache St.; Charles Schwartz, 2514 Main St.

Tex., San Antonio—Confections—Sherry's, Inc., capital \$25,000, incorporated; George Witte, W. Harold Doyle, John Hurst.

Tex., San Antonio—Sid Katz, 122 E. Gramercy St., reported, erect paint shop, 1600 block Broadway; 1-story, 54x150 ft., reinforced concrete frame, brick; J. J. Schneider, 428 Berkshire Ave.

Tex., San Antonio—Ice Cream—Merrill, Inc., capital \$30,000, incorporated; F. R. Merrill, A. R. Johnson, George C. Merrill.

Tex., San Antonio—San Antonio Appliance Co., 302 Market St., increased capital \$2500 to \$10,000.

Tex., San Angelo—Herschel Upton and Ted Logan, reported, to erect 1-story building.

Tex., Santa Anna—Phillips Drug Co., capital \$12,000, incorporated; Belle Phillips, Sud Middlebrook, Madge Terry.

Tex., Seguin—City Hotel Co., Seguin, capital \$10,000, incorporated; Ela Todd, T. B. Baker, Franklin Canady.

Tex., Sherman—Grayson Printing Co., 129 Wall St., reported, acquired Scruggs Printing Co. plant.

Tex., Wichita Falls—Schepps Baking Co., capital \$20,000, incorporated; Julius Schepps, George Schepps, N. Nathanson.

Tex., Wichita Falls—James Bros. Creamery Co., Inc., R. S. Smith, Mgr., 110 Chester St., let contract to R. S. Smith, 1404 Harrington Ave., Fort Worth, to erect creamery product plant; daily output 1500 gals.; 50x125, brick walls, tile partitions, cement floors, asphalt roof; cost \$15,000; Warren Roberts, Archt., 710½ Indiana Ave.

Tex., Waco—Backus Produce Corp., capital \$10,000, incorporated; Verna L. Backus.

Edgewater St.; B. T. Backus, Greenwich, Va.; Alice V. Backus.

Va., Norfolk—Brooks Cummings Shoe Co., Inc., capital \$15,000, incorporated; E. A. Watkins, Arcade Bldg.; H. M. Brooks, 3900 Bowdens Ferry Rd.; J. C. Cummings, 624 Carolina Ave.

Va., Richmond—Southern Biscuit Works, Wade H. Adams, V. Pres. and Gen. Mgr., 501 7. Byrd St., let contract to Wise Granite and Construction Co., American Nat. Bank Bldg., at \$250,000 for plant, Mulberry St. north of Broad; contract is exclusive of plumbing, heating, sprinklers, elevators and bakery equipment; 76x140 ft., 6 stories and basement, garage and power house in addition to the above; reinforced concrete, steel sash, maple floors, tar and gravel roof; 100,000 ft. of floor space; install modern baking machinery, gravity conveyor system, reel and traveling ovens, refrigerating and humidifying systems, electric elevators; designed so output can be increased to four times present capacity by erecting new building on same property; Francisco & Jacobus, Archts. and Engrs., 1903 E. Cary S., Richmond, and 511 Fifth Ave., New York; following sub-contracts have been let: Structural steel and ornamental iron, Richmond Structural Steel Co.; reinforcing steel, Virginia Steel Co.; brick and tile work, Duck, Carter Page; excavating, Hankins & Collins, all Richmond.

Va., Richmond—P. Lorillard Tobacco Co., 420 W. Lombard St., Baltimore, Md., will move to Richmond; consolidate with Whitlock Branch.

Va., Clarksburg—Adamston Flat Glass Co., W. M. B. Sine, General Mgr., 406 N. Sixth St., Clarksburg, making improvements to plant; tank with capacity of 40,000 boxes a month to be equipped with six 66-in. Four-caul machine; sub-contractors are: McClinic-Marshall Co., Oliver Bldg., for steel and erected by own men; Pittsburgh Plate Glass Co., Frisk Bldg., for flux and refractory materials; General Refractories Co., Oliver Bldg., for silica blocks, and fire brick by Harbison-Walker Refractories Co., Farmers Bldg., all Pittsburgh; Jas. A. Voorhies, Engr., and Thos. B. Hart, furnace building, in charge of work.

Va., Huntington—Edward C. Jones and Don Jenkins, reported, purchased Huntington Tribune.

Va., Keyser—Woodyard Brothers, Spencer, reported, establish weekly newspaper; Clay V. Miller, Mgr.

Va., Phillipi—Myers Remedy Co., Dr. J. W. Myers, reported, will enlarge plant.

Va., Wheeling—Swimming Pool—City, reported, construct municipal swimming pool, Belmont and 25th Sts. Address The Mayor.

### MOTOR BUS LINES AND TERMINALS

Ark., Fayetteville—A. B. Cheatham, Broken Bow, Okla., reported, acquired Red Ball Bus Line, operating between Fayetteville and Rogers.

Ky., Fulton—Fulton & Hickman Bus Line incorporated; Ira W. Little, I. H. Reed, Mike Johnson.

Ky., Louisville—White Swan Transit Co., H. L. Barnes, Mgr., established bus line between Louisville and Cincinnati, via Shelbyville, Frankfort, Georgetown, Cynthiana, Falmouth and Covington.

Ky., Louisville—Purple Motor Coach Co., B. B. Byrd, Mgr., establish bus line between Louisville and Cincinnati, via Shelbyville, Frankfort, Georgetown, Cynthiana, Falmouth and Covington.

Ky., Louisville—White Swan Transit Co., 400 S. Broadway, reported, purchased Fidelity Transfer Co., 734 S. 7th St., including 115 trucks, trailers and tractors, a relay station and other property.

Tex., Wichita Falls—Southern Bus Co., capital \$24,000, incorporated; T. J. Wynne, Raymond Darsey, H. A. Penrod.

Va., Richmond—Virginia-Carolina Fast Freight Line; capital \$25,000, incorporated; J. Mays, 701 N. Colonial Ave.; M. L. Waddill, J. R. Tucker.

### MOTOR CARS, GARAGES, FILLING STATIONS

Ark., Hot Springs—G. C. Smith, reported, planning to erect gasoline, oil and accessory building on Rader and Lacardo subdivision.

Ark., Hot Springs—Hot Springs Upholstery and Auto Trim Co., incorporated; John W. Dutton, E. L. McQuillan.

D. C., Washington—Blue Diamond Co., will erect 3-story building at 3250 Water St., cost \$20,000.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

D. C. Washington—J. F. White, 400 C St. N. E., will erect 2-story garage; cost \$15,000.

Fla., St. Petersburg—Crosstown Service Station, Inc., capital \$10,000, incorporated; Charles C. Fleet, 479 Central Ave.; Ruth H. Fleet.

Fla., St. Petersburg—Sullivan & Morgan, Inc., incorporated; E. W. Sullivan, H. S. Morgan.

Ga., Vidalia—Foster Thompson let contract to John T. Ragan Co., to erect filling station.

Mo., St. Louis—Kohler Motor Co., 5033 Helmar Blvd., increased capital \$10,000 to \$40,000.

Mo., St. Louis—King Delmar Garage Co., capital \$75,000, incorporated; J. P. Brickey, J. J. Brickey.

N. C., Charlotte—Barron-Caldwell Motor Co., will erect building, cost \$9,500.

Tenn., Johnson City—Wiley Fisher Tire Co., incorporated; J. B. Jared, W. B. Boyd, J. E. Anderson.

N. C., Gastonia—Wilson Lancaster Motor Co., A. F. Whitesides, E. Franklin St., let contract to J. M. Jenkins, Linwood St., to erect 1-story building; 60x115, and 60x120 ell, cement floors, composition roof; will install office fixtures, steel bins, shop equipment; cost \$20,000; J. Mack Jenkins; Archt., Linwood St.

N. C., Shelby—City, Mayor, Dorsey, reported, to erect 5 garages and storeroom buildings.

N. C., Thomasville—Hall Motor Co., capital \$25,000, incorporated; L. R. Hall, Royal T. Harris, Nona Hall.

Okl., Oklahoma City—C. S. Owens, 1116 W. 26 South St., will erect garage, cost \$13,000.

Okl., Tulsa—Selden Sales & Service Co., 202 S. Denton St., reported, erect 2-story garage; 100x140 ft., steel and reinforced concrete; cost \$60,000; A. C. Fabry, Archt., 619 W. 12th St.

S. C., Florence—McClam Price Chevrolet Co., increased capital \$5,000 to \$10,000.

S. C., Greer—C. and D. Chevrolet Co., capital \$30,000, incorporated; J. C. Cunningham, R. B. Dobson, H. K. James.

S. C., Rock Hill—Barron Caldwell Motor Co., reported, erect building; cost \$10,000.

Tenn., Chattanooga—City, Roger Crox, Commr., will erect gasoline station and garage on E. 11th St., cost \$8000.

Tenn., Memphis—Swayne-Latham Tires, Inc., 1230 Bank of Commerce Bldg., capital \$10,000, incorporated; Swayne Latham, 187 S. McLean St.; W. P. McDonald, Bank of Commerce Bldg.; J. S. Davant, Chamber of Commerce Bldg.

Tenn., Memphis—National Refining Co., 703 Kentucky St., will erect brick and steel service station at 376 Cleveland; cost \$10,000.

Tex., Beaumont—E. A. Wright, 295 Anchor St., reported, establish plant to manufacture trailers for automobiles; leased site Park and Milan Sts.

Tex., Corpus Christi—J. H. Ehlers, 323 S. Carrizo St., has building; will remodel into filling station, Agnes and Staples Sts.

Tex., Houston—Gulf Refining Co., purchased site, will erect filling station.

Tex., Mercedes—Archer-Dayo Nash Co., reported, to erect building.

Tex., Orange—Orange Motor Co., increased capital \$25,000 to \$50,000.

Tex., San Angelo—Marland Oil Co., Ponca City, Okla., reported, acquired site Oakes and Beauregard; will erect filling station; cost \$15,000.

Tex., Wichita Falls—Rainbow Bus Co., Inc., chartered; Raymond Darsey, Fred L. West, Edna Darsey.

Tex., Wichita Falls—Reid & Costley have contract to remodel building at Ninth and Travis Ave.; cost \$20,000; Jerry M. Schaefer, Archt., both Staley Bldg.

## Railway Shops and Terminals

Tex., Cleburne—McClintic-Marshall Co., Pittsburgh, Pa., reported, has contract for 2800 tons of steel for Santa Fe Railroad shops.

Tex., Fort Worth—Austin Co., Cleveland, Ohio, has contract for roundhouse and shop buildings for Texas and Pacific Railway Co.; let contract to Virginia Bridge & Iron Co., Memphis, Tenn., and Roanoke, Va., for 2000 tons of steel.

W. Va., Elkins—Western Maryland Railway Co., H. R. Pratt, Ch. Engr., Baltimore, Md., reported to rebuild shops, recently destroyed by fire; cost \$100,000.

## Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

## Proposed Construction

Ala., Prichard—City, W. I. Davis, Clk., receives bids July 5 for 1 mi 24-ft. concrete paving, about 3 mi. sanitary sewerage and water works; Robt. L. Totten, Inc., Consit. Engr., Birmingham.

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, receives bids June 30 for 7 roads, totaling 74,774 mi. in Cleburne, Chicot, Pike, Columbia, Calhoun, Clark and Union Counties, and 3 bridges in Pike, Union and Ouachita Counties.

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., receives bids June 30 for grading and drainage structures on 4 roads: Phillips County—6,058 mi., between Lee and Barton, 31,540 cu. yd. excavation, 13,905 lb. reinforcing steel; Union County—10,814 mi. El Dorado-Smackover road, 77,523 cu. yd. excavation and borrow, 53,421 lb. reinforcing steel; alternate bids on 126,580 sq. yd. concrete, 118,163 sq. yd. brick, 126,580 sq. yd. asphaltic concrete base and curb, 118,163 sq. yd. asphaltic concrete top course, 98,476 sq. yd. concrete base course, curbs; Bradley County—6,306 mi. concrete pavement, Warren North road, 65,996 sq. yd. fine grading, subgrade and shoulders, and concrete paving; Lafayette County—9,59 mi. gravel, Hope-Lewisville road, 55,473 cu. yd. excavation, 17,491 cu. yd. gravel surface course, 17,009 lb. reinforcing steel; plans on file.

Ark., Little Rock—City Council approved plans to establish Street Improvement Dist. No. 464, and pave West Second St., Gaines to High, in dist. Address City Clk.

Fla., Daytona Beach—Special Road and Bridge Dist., Chas. F. Burgman, Chmn., plans building 38 mi. Ocalas highway through district from Atlantic Ocean to St. John's River; \$1,350,000 bonds authorized.

Fla., Daytona Beach—City, Walter A. Richards, Mgr., receives bids July 5 for 34,170 sq. yd. sub-grading, 21,615 sq. yd. 6-in. concrete base, 21,715 sq. yd. asphalt wearing surface, 7,494 lin. ft. combined curb and gutter, on North Beach St.; plans from C. R. Teaff, City Engr.

Fla., Jacksonville—Duval County Comms., Frank Brown, Clk., receives bids July 1 for 3,20 mi. Lem Turner road, from city limits at Moncrief Creek Bridge to Trout River Bridge; 15,000 cu. yd. excavation, 24,500 lin. ft. inverted curb or header or concrete curb, 6400 sq. yd. Florida rock base, 2560 cu. yd. oyster shell base, 3000 lin. ft. solid tile curb, 37,500 sq. yd. bituminous surface; plans from F. M. Edwards, County Engr.

Fla., Melbourne—Houghton & Elliott, owners and developers, Indian River Bluff section, plan paving in rear section of development.

Fla., Palatka—Putnam County Bond Trustees, J. W. Hart, Sec., receives bids July 5 to grade, base and top surface 9 roads: ½ mi. Lemon St., extension; 1½ mi. brick, Lemon St. to Penal; 2 mi. River Road; 2½ mi. Tom Waldron's to St. Johns County line; 2 Federal Point Roads, 1½ mi. mi.; 6 mi. Satsuma to Welaka; 5 mi. Fruitland to Georgetown Point; 8 mi. Fruitland to Crescent City; 3 mi. Arnold's Garage to Penal, to Stacey's Corner.

Fla., St. Augustine—City Comm., Eugene Masters, Mgr., receives bids July 5 for 140,753 sq. yd. Kentucky rock surface over 4020 sq. yd. old brick, 25,39 mi. curb and gutter, 2,06 mi. sidewalks, 83,064 cu. yd. excavation; plans on file and from Peter Kendrick Engineering Co.

Fla., Tampa—City, W. Lesley Brown, Mgr., receives bids July 5 for 2000 sq. yd. 2½-in. vitrified brick pavement, with asphalt filler, 2266 lin. ft. 4x18-in. granite curb, 1171 cu. yd. grading; plans from R. D. Martin, City Engr.

Ky., Thomasville—City plans additional paving and street improvement, cost \$70,000. Address City Clk. See Financial News—Bond Issues Proposed.

Ky., Thomasville—City plans additional paving and street improvement, cost \$70,000. Address City Clk. See Financial News—Bond Issues Proposed.

Ky., Frankfort—State Highway Comm., Frankfort, receives bids June 30 for 12 roads and bridges: Boone County—4,631 mi. 30 and 32-ft. grade and drain, Florence-Warsaw Road, from point north of Beaver Lck. to Union, 45,854 cu. yd. excavation and borrow, 13,215 lb. reinforcement; Jackson County—4.2 mi. 24 and 28-ft. grade and drain, Richmond-McKee Road, from point west of McKee to McKee, 218,241 cu. yd. excavation and borrow, 137,000 lb. reinforcement; 10.5 mi. 24

and 28-ft. grade and drain, McKee-Manches-ter Road, from McKee to Tyner; Knott-Perry Counties—12.9 mi. 20 and 24-ft. grade and drain, Hindman-Dwarf Road, from Hindman to intersect Hazard-Jackson Road at Dwarf, 195,262 cu. yd. excavation and borrow, 86,994 lb. reinforcement; Lee County—2,481 mi. 24 and 28-ft. grade and drain, Beattyville-Jackson Road, from underpass west of Tallega to point to Athol, near Breathitt County line, 94,108 cu. yd. excavation and borrow, 36,095 lb. reinforcement; Breckinridge County—11,029 mi. 160-ft. water or traffic bound macadam, river or bank gravel, Hardinsburg-Hawesville Road, Hardinsburg to Cloverport, 13,627 cu. yd. excavation and borrow.

In Crittenden County—8.831 mi. traffic bound macadam, river or bank gravel, Marion-Smithland Road, Marion to Livingston County line, 17,000 cu. yd. excavation and borrow; Graves County—8.714 mi. water-bound macadam bank or river gravel, Mayfield-Fulton Road, Mayfield to Wingo, 20,000 cu. yd. excavation and borrow; Meade County—9.318 mi. 16-ft. traffic or waterbound macadam, river or bank gravel, Brandenburg-Hardinsburg Road, Brandenburg to Breckinridge County line, 12,101 cu. yd. excavation and borrow; Ohio County—7.22 mi. 16-ft. traffic bound macadam, river or bank gravel, 16,435 cu. yd. excavation and borrow; Bracken County—4,392 mi. 14-ft. traffic or waterbound macadam, river or bank gravel, Brooksville-Falmouth Road, Willow to Pendleton County line; Washington County—10 mi. Springfield-Lawrenceburg Road, Springfield to Willisburg, 15,000 tons crushed limestone; plans from E. N. Todd, State Highway Engr., and from Dist. Engrs.

Kentucky—State Highway Comm., Frankfort, receives bids July 29 for 15 roads and bridge: Ballard-Carlisle Counties—bridge over Mayfield Creek, Bardwell-Wickliffe road; approach spans, consisting of twenty 30-ft. clear-span reinforced concrete deck girders, with reinforced concrete pile trestles, repair 2 existing piers; 122-ft. steel span superstructure; Boyle County—2 mi. surfacing, Danville-Lancaster road, from point about 3 mi. southeast of Danville to Hedgeville; 1.8 mi. surfacing, Danville-Shakertown road, from point about 2.75 mi. north of Danville at Mocks Bridge to Mercer County line; Franklin County—13.3 mi. grade and drain, Frankfort-New Castle road, from West Frankfort (Bellepoint) to Henry County line.

In Gallatin County—4.8 mi. grade and drain, Warsaw-Florence road, from ¼ mi. northeast of Sugar Creek Bridge to Boone County line; Grayson County—3.3 mi. surfacing, Leitchfield-Elizabethtown road, point 2 mi. northeast of Leitchfield to Clarkson; 4 mi. surfacing, Leitchfield-Owensboro road, Leitchfield toward Fordsville; Hart County—9.18 mi. Hodgenville-Glasgow road (Jackson Highway), Larue County line to Canner, and Dowagiac; 10 mi. Hodgenville-Glasgow not including 1.9 mi. between Sand Hollow road, Canner to Bear Wallow, not including 1.4 mi. between point south of Uno, and point north of Bear Wallow; deliver crushed stone on road for traffic bound macadam.

In Magoffin-Johnson County—14.2 mi. surfacing, Salyersville-Paintsville road, Salyersville to Mouth of Mud Lick Creek, Johnson County, northwest of Paintsville; Mason County—6 mi. surfacing, Mayslick-Wedonia road, from Mayslick to Wedonia; 11 mi. surfacing, Washington-Sardis road; Nicholas County—6.2 mi. surfacing, Carlisle-Cynthiana road, from intersection with Lexington-Maysville Pike, to Bourbon County line; Russell County—12.9 mi. surfacing, Jamestown-Liberty road, from Jamestown to Casey County line; Warren County—4.8 mi. grade and drain, Bowling Green-Morgantown road, from point west of Bowling Green to point south of Hadley; Whitley County—8.2 mi. surfacing, Williamsburg-Jellico road, Williamsburg to Saxton; E. N. Todd, State Highway Engr.

Ky., Ashland—City, Thomas Boggess, Supt. of Public Works, plans paving Pollard Road and Blackburn St.

Ky., Greenup—Greenup County Comms. plan improving Flatwoods Road, from top of Wheeler's Hill to point beyond Pond Run schoolhouse; substantial base, crushed lime or other substance top.

Ky., Paducah—City, J. N. Bailey, Mayor, received low bid from Frazier & Cocke, at \$63,639, to surface gravel streets.

Ky., Paducah—City, J. N. Bailey, Mayor, plans hard surfacing Jefferson St., from Fountain Ave. to 19th St.: lay sidewalks, curbs and gutters on Greer and Bridge St.

Ky., Paducah—McCracken County Fiscal Court receives bids July 1 to re-build 16 gravel roads, totaling 49½ mi., and improve 16 gravel roads, totaling 22 mi.: 2½ mi. Engleide; 2½ mi. New Liberty, South; 4 mi. Bethel; 1½ mi. Simms' School; 3 mi. McColl; 2 mi. Metropolis Lake; 2½ mi. Miller; 3 mi. Milan School; 4 mi. Old Wadesboro; 4½ mi. Contest; 5 mi. Houser; 3 mi.

Said; 2 mi. Massac School; 2½ mi. Hines Road; 3 mi. Husbands; 4½ mi. Oaks; 25,500 cu. yd.; 2 mi. New Liberty; 1 mi. Brockman; 1 mi. Crawford's Lake; 2 mi. Anderson; 1½ mi. Alliston; 1 mi. Babe Anderson; 2 mi. Joppa Landing, South; ½ mi. De Luckett; 1½ mi. Cox; 1 mi. Rice Spring; ½ mi. Boyd Gholson; 1½ mi. Biggs; 1 mi. Palestine School; 1 mi. Marshall Wessen; 2 mi. Fisher School House Road; 1½ mi. Magruder; Will Warren, County Engr.

Louisiana — Louisiana Highway Comsn., Baton Rouge, received low bid from Young & DeBritton, Zachary, at \$37,643, for 3 roads: East Feliciana Parish — 1.91 mi. Clinton-Baton Rouge Highway from East Baton Rouge-East Feliciana Parish line to Olive Branch; 4.93 mi. Slaughter-Bluff Creek Agricultural High School Highway; East Baton Rouge Parish—1.3 mi. Clinton-Baton Rouge Highway, from East Baton Rouge-East Feliciana Parish line to end of present gravel road. 5-25

La., Crowley — Board of Supvrs., Road Dist. No. 4, Acadia Parish, J. E. Daigle, Chmn., receives bids July 12 for 2 roads: 5 mi. Lejeune Cove Road, 23,626 cu. yd. earth; 4 mi. Mamou Road; also bridges and culverts; plans on file.

La., Franklinton — Louisiana Highway Comn., Baton Rouge, receives bids July 12 to furnish gravel and build 2 roads in Washington Parish: 14.78 mi. Sun-Bogalus-Mississippi State line, from city limits of Bogalusa, through Varnado and Angier to Mississippi State Highway line; 7.07 mi. Franklin-Covington Highway, from St. Tammany-Washington Parish line, 5½ miles north of Folsom, to gravel road toward Franklinton; plans on file; N. W. Bowden, State Highway Engr.

La., New Orleans — City plans paving Palm St., Carrollton Ave. to Seventeenth St. canal. Address City Clk.

La., Pointe a la Hache — Louisiana Highway Comn., Baton Rouge, receives bids July 12 for 8 mi. roadway embankment and drainage structures, New Orleans-Fort Jackson Highway, Plaquemines Parish, from point about 1 mi. south of Magnolia to connect with Project 346-C-1; plans on file; Nicholls W. Bowden, State Highway Engr.

Maryland — State Roads Comn., Baltimore, received low bids for 4 roads: Baltimore City — .63 mi. plain cement concrete base, bituminous surface, along Hillen Rd., 35th St. to Argonne Ave., P. Flannigan & Sons, Harford Road and B. & O. R. R., Baltimore, \$110,841; Wicomico County — 1.08 mi. concrete, Catchpenny toward Whitehaven, P. D. Phillips & Bro., Salisbury, \$20,987; Howard County — 1.22 mi. concrete along Cherry Lane, from near New Cut Road to Clarksville Pike, Ward & O'Connell, New Amsterdam Bldg., Baltimore, \$24,886; 1.41 mi. concrete, along Cooksville-Olney Road, from end of Cont. HO-21 to Coomb's Corner, Thomas Bennett & Hunter, Westminster, \$49,988. 6-2

Md., Baltimore — Board of Awards receives bids June 29 to grade, curb and pave with 15,500 sq. yd. cement concrete on concrete base, streets in Cont. No. 410; 11,100 sq. yd. sheet asphalt on concrete base, Cont. No. 411; plans on file; Steuart Purcell, Highways Engr.; B. L. Crozier, Ch. Engr.; Wm. F. Broening, Mayor.

Md., Baltimore — Board of Awards received low bid from Baltimore Asphalt Block & Tile Co., Monroe and Laurens St., at \$43,755, for 9,500 sq. yd. asphalt paving on streets in Cont. No. 409. 6-9

Md., Baltimore — Board of Estimates approved plans for sheet asphalt pavements on 9 streets, including Calvert, Henrietta, Fayette Sts., East Ashland, Belvoir Aves.; concrete on 11 streets, including Regester St., Chesmont, Cardenas, Kenyon Aves.; cost \$90,000; grading and paving footways in various sections of city, estimated cost \$30,000; Stuart Purcell, Highways Engr.; B. L. Crozier, Ch. Engr.; Wm. F. Broening, Mayor.

Md., Baltimore — Board of Awards receives bids June 29 to grade and pave with cement concrete footways in Footway Cont. No. 102; Steuart Purcell, Highway Engr.; B. L. Crozier, Ch. Engr.; Wm. F. Broening, Mayor.

Miss., Bay Springs — Jasper County Board of Supvrs. plans receiving bids for highway from Louin to Newton County line, and creosoted highway bridges. 4-21

Miss., Brookhaven — City, Perry A. Coker, Clk., plans paving West Monticello and Cherokee St.

Miss., Columbia — Board of Aldermen plans letting contract soon to pave 4 blocks High School and Oak Ave.; 3 blocks Dale St.; Ford St., High School to Oak Ave.

Miss., Columbia — Town plans receiving bids to pave 3 streets; Henry A. Mentz, Cons'l Engrs., Citizens National Bank Bldg., Hammond.

Miss., Gulfport — Harrison County Board of Supvrs., E. J. Adams, Sr., Pres. Dist. No. 3, plans paving Fourth St. from Beach to Bayview Ave., Henderson Point.

Miss., Laurel — Jones County Board of Supvrs. plans grading 2 mi. Jackson Highway, out Meridian Ave. from Cross St. to Tallahala Bridge.

Miss., Meridian — Lauderdale County Board of Supvrs. receives bids July 5 for ¼ mi. Causeyville road; plans from J. B. Holland, County Clk.

Miss., Pascagoula — Jackson County Board of Supvrs. may let contract about Aug. 1 or 15 for beach boulevard, with 2 mi. seawall in front of Ocean Springs, with 2½ mi. at Pascagoula. 6-16

Miss., Ripley — Tippah County Board of Supvrs. plans graveling 8 mi. rock road, through Blue Mountain, being link of College Trail, from Chicago to Mobile; William Rogers, civil engineering student from Mississippi A. & M., New Albany, supervise work.

Mo., Independence — Jackson County considering expending \$6,500,000 for hard surfaced roads; Harry S. Truman, County Judge. See Financial News — Bond Issues Proposed.

Mo., Marshfield — Webster County Court plans road and bridge building; cost \$300,000. Address County Commr. See Financial News — Bond Issues Proposed. 6-16

Mo., Springfield — City plans 5 mi. concrete paving from Cherry St. north; H. P. Mobberly, Div. Highway Engr.

Mo., Springfield — Springfield Road Dist. Comn., plans improving South Campbell Ave. road, from city limits to Christian County line.

Mo., Warrenton — City receives bids June 27 to resurface old macadam streets, with 19,245 sq. yd. Amiesite pavement; 5800 sq. yd. macadam base, 2000 cu. yd. excavation, 6100 lin. ft. curb and gutter, 300 lin. ft. curbs; plans on file and from H. D. Smeiser, Engr., St. Charles.

N. C., Hendersonville — Henderson County Commr. and Road Board receive bids June 30 to hard surface about 11 mi. Mills River road, from Hendersonville-Asheville Highway to Buncombe County line; 5-in. concrete base or waterbound macadam base, with black top, or 6-in. concrete; approximate cost \$200,000. 4-28

N. C., Winston-Salem — City, Thomas Barber, Mayor, plans about 1 mi. paving N. White St. to Bon Air section.

Okla., Altus — Jackson County Commr. plan grading, drainage structures and graveling 152 mi. permanent roads. See Financial News — Bond Issues Proposed.

Okla., Duncan — City, R. K. Arnold, Mayor, and State Highway Dept., Oklahoma City, plan paving 3 blocks on Main St. east of railroad.

Okla., Tulsa — City Comn. may receive bids June 24 to surface streets in 9 paving districts, including Birmingham Ave., Gary Place, etc.; Charles Schultz, City Engr.

Okla., Waurika — Jefferson County Commr. plan hard surfacing north and south roads across county, connecting with Stephens County paving, through Addington, Waurika, Ryan and Terral, to Red River; east and west highway No. 5, from Carter County line, through Ringling and Waurika, and over State Highway No. 32, through Hastings to Cotton County line, cost \$1,800,000. See Financial News — Bond Issue Proposed.

South Carolina — State Highway Dept., Columbia, received low bids for 3 roads and 2 bridges: Marion County — Route No. 3, 7.7 mi. concrete surfacing, plain concrete base, between Marion and Mullins, Southern Paving Construction Co., Charlotte, N. C., \$175,664; Route 3, 7.8 mi. asphaltic concrete surfacing, plain concrete base, between Pee Dee and Marion, at \$186,847; York County — Route 16, 6.1 mi. plain concrete surfacing, from point near Guthries to Chester County line, J. L. Humbard Construction Co., General Bldg., Knoxville, Tenn., \$149,024; Union-Chester Counties — Route 7, reinforced concrete and steel bridge over Broad River, between Chester and Carlisle, G. A. Thomasason, Macon, \$79,970, substructure; Austin Brothers Bridge Co., 1195 Mickleberry St., Atlanta, Ga., \$34,708, superstructure; Marion County — Route 13, treated timber bridge, in Lumber River swamp, Simons-Mayrant Co., Peoples Bldg., Charleston, \$4813. 6-9

South Carolina — State Highway Dept., Columbia, received low bids for 3 roads and bridge: Orangeburg County — 15.4 mi. sand-clay surfacing, Route 6, between Orangeburg and Branchville, J. H. Milford, Greenwood, \$50,424; Aiken County — treated timber and structural steel bridge, Route 12, over Southern Ry. near Augusta, W. B. Boyle Co., Sumpter, \$5365; York County — 3.5 mi. plain con-

crete surfacing, Route 16, between Clover and North Carolina line, O'Brien Engineering and Const. Co., Peninsular Casualty Bldg., Jacksonville, Fla., \$82,815; Pickens County — 5.8 plain concrete surfacing, Route 2, part of paving through Liberty, Simmons-Mayrant Co., Peoples Bldg., Charleston, \$137,760; Ben M. Sawyer, Ch. Highway Commr. 6-9

S. C., Gaffney — Cherokee County Commr., E. Wright Jolly, Supvr., plan highway from Dravo Bridge to North Carolina State line, at point near Val Thomason store.

S. C., Greenville — City, George Wells, Clk., plans street paving, and steel bridge across Reedy River at River St., cost \$250,000. See Financial News — Bond Issues Proposed. 6-16

S. C., Orangeburg — Orangeburg County considering building several roads, and 2 bridges: At Rowe's Bridge near Rowesville; Jennings Bridge near Branchville; H. E. Moore, Clk., County Highway Commr. See Financial News — Bond Issues Proposed.

Tennessee — Dept. of Highways and Public Works, Nashville, plans oiling 4 roads: Project No. 29, 12 mi., from Hamilton County line, through Dayton toward Rockwood; No. 37, 15 to 20 mi., from Elizabethton toward North Carolina line; No. 1, 25 mi. from Tates, through Rutledge to Knox County line; No. 32, 8½ mi. from Athens to Etowah; C. N. Bass, Ch. Highway Commr.

Tenn., Chattanooga — Hamilton County Highway Comn. receives bids July 8 for about 1 mi. 60-ft. concrete or asphalt paving on Whiteside St.; also bridge over Chattanooga Creek, on Whiteside St.; estimated cost \$200,000; 20-ft. wide concrete bridge over Lookout Creek, on Birmingham-New Orleans road, estimated cost \$30,000; grade Lee Highway from Silverdale to Bradley County line; E. J. Murrell, County Engr.

Tenn., Jackson — City, J. G. Neudorfer, Commr. of Public Utilities, receives bids July 6 for about 27,000 sq. yd. 6-in. plain one-course concrete pavement, 14,500 lin. ft. combined concrete curb and gutter, 1800 lin. ft. storm sewers with inlets and manholes; E. R. Dike, City Engr.

Tenn., Johnson City — City, T. H. McNeil, Recorder, received low bid from Southeastern Paving Co., for concrete paving in underpass.

Tenn., Nashville — City, Hilary E. Howse, Mayor, plans paving 6 streets, including Thirteenth, Twelfth, Park Ave.

Tenn., Paris — Henry County considering completing Austin Peay Highway from Clarksville to Memphis. Address County Commr.

Tenn., Union City — Road — Obion County Court plans hard surfaced roads; cost \$200,000. Address County Commr. See Financial News — Bond Issues Proposed. 4-21

Tex., Alamo Heights, San Antonio — City, R. E. O'Grady, Mayor, plans street paving, cost \$180,000. See Financial News — Bond Issues Proposed. 5-19

Tex., Austin — City, Adam R. Johnson, Mgr., plans street paving. See Financial News — Bond Issues Proposed.

Tex., Austin — City, Adam B. Johnson, Mgr., plans paving Duval St., with ½-in. hot rolled rock asphalt, estimated cost \$26,000; Orin E. Metcalfe, City Engr.

Tex., Big Spring — City Comn. considering 9-in. base, 1½-in. Uvalde rock asphalt, applied cold topping, on 34 streets in residence section.

Tex., Brownsville — Cameron County, Oscar C. Dancy, County Judge, plans 24.5 mi. reinforced concrete pavement, Highway No. 100, Barreda to Point Isabel, estimated cost \$720,000; W. O. Washington, County Engr.

Tex., Denton — Denton County Commr. plan expending \$500,000 to complete Denton-Dallas road through Lewisville Dist. and build lateral roads. See Financial News — Bond Issues Proposed.

Tex., Dilley — City, Roy Busby, Mayor, plans street paving, cost \$30,000. See Financial News — Bond Issues Proposed. 5-26

Tex., El Paso — El Paso and Hudspeth Counties plan organizing road district to complete State Highway No. 1 to Sierra Blanca, and build Carlsbad Cavern Road. Address Counties Commr.

Tex., Galveston — Galveston County, John M. Murch, County Auditor, receives bids June 27 for surface paving Avenue S, and 61st Roads; plans on file.

Tex., Henrietta — Clay County, J. P. Williams, County Judge, plans 10 mi. crushed stone base, asphalt top, Highway No. 25, Charlie to Antelope, estimated cost \$80,000.

Tex., Houston — Harris County, H. L. Washburn, County Auditor, receives bids soon for grading and drainage structures on Houston-Goose Creek (Market St.) road, estimated cost \$80,000; Howe & Wise, County Engrs.

Tex., Lubbock — Lubbock County plans

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

hard surfacing roads, cost \$1,000,000. Address County Comr. See Financial News—Bond Issues Proposed.

Tex., McCamey—Chamber of Commerce, E. L. Cole, Sec.-Mgr., interested in road from city to Yates oil field.

Tex., Matador—Motley County, J. F. Jordan, County Judge, plans 38.76 mi. grading, bridges and gravel base, bituminous top surfacing; estimated cost \$309,500; Geo. A. Lider, County Engr.

Tex., Paducah—Cottle County, J. M. Whately, County Judge, plans about 33 mi. Highway No. 28, Lee Highway from Foard County line to Motley County line; 18.5 mi. reinforced concrete surface; 13 mi. sledge stone base, 2-in. asphalt top; estimated cost \$991,750; Nagle-Wilt-Rollins & Gilchrist, County Engrs., Allen Bldg., Dallas.

Tex., Palestine—Anderson County, E. H. Shelton, County Judge, plans road building.

Tex., Palestine—Anderson County, E. H. Shelton, County Judge, plans improving 5 roads: Elkhart Road, from Elkhart south; concrete road from Palestine to Elkhart; extend Tennessee Colony Road to Cayuga; Elkhart Road from Elkhart to Denson Springs; Montalba Road to county line, to Henderson County Highway.

Tex., Pampa—City plans 9½ blocks additional paving. Address City Clk.

Tex., Plemons—Hutchinson County plans road building, cost \$1,250,000. Address County Comr. See Financial News—Bond Issues Proposed.

Tex., San Antonio—Medina Highlands Toll Road Co., capital \$60,000, incorporated; W. A. Bedell, 439 W. Mistleton St.; G. C. Hagelstein, 217 N. St. Mary's St.; Lester S. Whipple, City Natl. Bank Bldg.

Tex., San Antonio—City Comn., John W. Tobin, Mayor, plans expending \$22,283 toward paving about 1½ mi. 30 ft. wide, on Fredericksburg road; 6 blocks, 32-ft. Cavallos St.; 13 blocks, 20 ft. Elmdorf St.; 1 block, 27-ft., Agarita Ave.; I. Ewig, City Engr.

Tex., San Antonio—City, John W. Tobin, Mayor, plans expending \$50,000 to pave 1¼ mi. Fredericksburg road, from Martinez Fredericksburg road to 100 ft. to Leon Creek to city limits; plans widening 10-mi. Springs; I. Ewig, City Engr.

Tex., San Antonio—Bexar County, Augustus McCloskey, County Judge, receives bids July 8 for 8 roads, Topping Zercher Road, 16-ft. wide, Bulverde road, to Beitel-Perrin road; 16-ft. Beitel-Perrin road, Zercher road to Austin road; 16-ft. pavement in Converse, from State Highway south; 16-ft. Seguin road, from State Highway north to flat crossing, top all flat crossings on Gibbs-Sprout road; topping and re-building with gravel, Hot Wells Blvd., from present pavement to Weber road; re-build with gravel, W. W. White road, from Gonzales road to New Sulphur Springs road; build Rigsby Ave., from city limits to Gonzales road; W. S. Kendall, County Auditor.

Tex., Texarkana—City plans \$100,000 street paving. Address The Mayor. See Financial News—Bond Issues Proposed.

Tex., Vernon—Wilbarger County, plans 12.3 mi. concrete pavement, Highway No. 28, Vernon to Foard County line, estimated cost \$374,000; John B. Nabors, County Engr.

Va., Danville—City receives bids June 25 to widen Loyal St.; 790 lin. ft. 30-in. concrete curb and gutter, 263 sq. yd. 5-in. 1-2-4 concrete sidewalk, 1000 sq. yd. 3-in. sheet asphalt on 8-in. waterbound stone macadam base; C. L. Scott, Jr., City Engr.

Va., Norfolk—City, I. Walkie Truxton, Mgr., plans paving Blair Ave., Gowrie Park, and Dupont Circle, cost about \$10,000.

Va., Petersburg—City, Dr. W. F. Drewry, Mgr., plans expending about \$82,618 to improve various streets, including surfacing Harrison, South St., Rose Alley.

Va., Richmond—City Council, Streets Committee, considering opening and widening Fifteenth St., Dock to Franklin, east to Seventeenth; Seventeenth St. to Hospital St.; along Shockoe Creek to streets leading into Highland Park, Barton Heights and Ginter Park; R. Keith Compton, Director of Public Works. See Financial News—Bond Issues Proposed.

Va., Richmond—City, R. Keith Compton, Director of Public Works, received low bid from W. J. McLean at \$70,000 for curbing and guttering in various sections of city.

Va., Rustburg—Rustburg Dist. Road Board, C. B. Stone, Supvr., receives bids June 25 to grade and gray soil 1 mi. public roads, from Early's Chapel, southeasterly; 3/4 mi. road from bridge across Barker's Branch, southeasterly; plans from County Clk.

Va., Winchester—City Council plans widening North Loudoun St., from Boscowen to Rous Ave.

W. Va., Charleston—Kanawha County, Elk Dist., plans 10 roads and bridges, totaling 50 miles: 25 mi. 14-ft. concrete or penetration macadam, Cooper's Creek Road; about 2 mi. grading and drainage, Newhouse Branch Road; 2 mi. 16-ft. concrete pavement, Elkview-Walton Road; 4 mi. grading, draining, from Elkview-Walton Road, from mouth of Aaron's Fork toward Poca Dist. line; 3 mi. 14-ft. grading, draining and concrete or penetration macadam surfacing Wills Creek Road; from Elkview-Walton Road toward Big Fork; bridge across Elk River, at or near mouth of Blue Creek; 3 mi. grading, draining, etc., Blue Creek Road, from mouth of Blue Creek toward Coco; 2 mi. Elkview-Pinch Road, from Elkview Bridge toward Pinch; estimated cost \$300,000. Address County Comr. See Financial News—Bond Issues Proposed.

W. Va., Huntington—City Comn., W. E. Neal, Mayor, plans receiving bids to pave Six and One-half Alley, 20th to 24th St.; A. B. Maupin, City Engr.

W. Va., Huntington—City, Homer L. Yeich, Commr. of Streets, receives bids July 5 to grade, curb and pave Fifth St. from Jefferson to Adams Ave.; A. B. Maupin, City Engr.

W. Va., Martinsburg—State Road Comn., E. B. Carskadon, Sec., Charleston, receives bids July 14 for 3.5 mi. concrete shoulders, Martinsburg-Bunker Hill road; plans on file and from B. E. Gray, Div. Engr., Keyser.

W. Va., New Martinsville—Wetzel County Court plans road improvement in Church Magisterial Dist.; cost \$140,000. Address County Comr. See Financial News—Bond Issues Proposed.

W. Va., New Martinsville—Wetzel County plans road building in Green Road Dist., cost \$185,000; G. A. Harman, Clk. See Financial News—Bond Issues Proposed.

W. Va., South Charleston Branch, Charleston—Town, Albert B. Fitzwater, Mayor, receives bids July 1 for about 22,739 sq. yd. grading and paving; plans from R. C. Jarrell, Recorder.

## Contracts Awarded

Fla., Melbourne—Houghton & Elliott, owners and developers, Indian River Bluff section, let contract to C. L. Bennett Construction Co., to pave road connecting south entrance of development with Dixie Highway.

Fla., Miami—Morgan-Hill Paving Co., Woodward Bldg., Birmingham, Ala., has contract at about \$500,000 for street paving.

Ga., Macon—City let contract to Hall & Bowen, at \$8134, for .495 mi. paving through Rose Hill cemetery.

Ga., Valdosta—Lowndes County has contract to build right-of-way for highway, east and west, from Valdosta to Clinch County line; 200,000 yds. dirt; cost about \$70,000. Address County Comr.

Kentucky—State Highway Comn., Frankfort, let contracts for 3 roads; Adair County—10,632 mi. grade and drain, 24 and 28-ft.; Columbia-Burkesville road, from 2 mi. south of Sparksville to corporate limits of Columbia, Mason Construction Co., West Point, \$104,422; Cumberland County—9,911 mi. grade and drain, 24 and 28-ft.; Columbia-Burkesville-Neely's Ferry road, from Neely's Ferry to point north of Burkesville, Lewis McComas, Burkesville, \$109,000; Graves County—10,125 mi. grade and drain 24 and 28-ft.; Mayfield-Bardwell road, from west corporate limits of Mayfield to Carlisle County line, Bradley & Wilson, Kevil, Ky., \$61,968.

Ky., Fort Thomas Branch, Newport—City let contracts at \$85,600 for street improvement: Billiter & Miller Co., Covington, Sherman, Grant and Sheridan Ave.; E. G. Adler Construction Co., Newport, Villa Place and Ohio Ave.

Ky., Paducah—City, J. N. Bailey, Mayor, let contract to Frazier & Cocke, at \$55,944 to gravel surface 18 streets in Conts. Nos. 1, 2, 4 and 5; to E. L. Beyer, at \$7,638, for 3 streets in Cont. 3.

Ky., West Monroe Branch, Monroe—City let contract to J. J. Hamiter, 100 Wood St., for 21 blocks additional paving with natural rock and asphalt.

Miss., Hattiesburg—S. K. Jones Construction Co., Cotton Exchange Bldg., Memphis, Tenn., has contract to pave North Main St. from present end of brick pavement to Boule River Bridge.

Miss., Jackson—State Highway Comn., Jackson, let contract to Williams Brothers, Oskayka,

at \$64,626, to grade and drain 7½ mi. road between Jackson and Terry.

Miss., Jackson—City Comr. let contract to McGee and Wetmore, at \$58,486, to extend Lamar St., Pearl to Pascagoula St.

Miss., Oxford—Lafayette County Board of Supervs., let contract to Sam B. Boyd, Columbia, at about \$43,000, for 4 mi. gravel road, from point south of Oxford and Taylor.

Mo., Independence—City let contract to E. D. Tyner Construction Co., to resurface pavement on Osage St., Lexington to Kansas.

Mo., Joplin—City, Maud E. Fons, Clk., let contract to V. E. Koch, 702 N. Pearl St., at \$1.69 per sq. yd. to pave Connor St.; \$1.69 per sq. yd. to pave Porter Ave.; \$1.75 per sq. yd. for excavation, and \$1.75 per sq. yd. for surfacing Thirty-second St.

Okl., Vinita—T. D. Cox, owner Craig County Motor Co., reported, has contract for about 18 mi. screened gravel, U. S. Highway No. 66, through Craig County.

Texas—State Highway Comn., R. S. Sterling, Chmn., Austin, let contracts for 3 roads and 3 bridges and culverts: Jim Wells County—9.78 mi. grading and drainage, Highway No. 12-A, Alice to Duval County line, A. L. Pearson, Corpus Christi, \$37,680; Johnson County—1.70 mi. grading and drainage, Highway No. 10, from Parker County line to Hood County line, McClung Construction Co., Fort Worth, \$7929; Parker County—5.47 mi. grading and drainage structures, Highway No. 10, Tarrant County line to Johnson County line, Armstrong & Armstrong, 402 Houston Bldg., San Antonio, \$19,529; 3 structures, McClung Construction Co., F. & M. Bank Bldg., Fort Worth, \$22,848.

Texas—State Highway Comn., R. A. Sterling, Chmn., Austin, let contracts for 8 roads, 5 bridges and approaches: Terrell County—5.2 mi. grading and drainage structures, Highway No. 3, L. J. Miles, Fort Worth, \$64,117; Shackelford, Jones and Calahan Counties—18.5 mi. grading and drainage Highway No. 1-A, Frank Purvis, 1501 W. Myrtle St., Fort Worth, \$45,295; bridges on Highway No. 1-A, L. L. Standford, Fort Worth, \$26,093; Hall County—13.5 mi. concrete, Highway No. 5, V. P. Strawn, Salt Lake City, Utah, \$360,411; Tom Green County—5.4 mi. grading and drainage structures, Highway No. 99, McClung Construction Co., Farmers and Mechanics Bank Bldg., Fort Worth, \$46,993; Fayette County—8.2 mi. grading and drainage structures, Highway No. 73, Henry Kyle, Hutto, \$32,241; Travis County—bridge to replace Montopolis structure, Highway No. 71, (Colorado River), E. Artman, Giddings, \$16,925; Robertson County—bridge on Highway No. 43, E. E. Beard, Cleveland, \$10,681; Haskell County—bridge over Double Mountain Fork of Brazos, Highway No. 120, Gaines, Yoakum & Mackey, 519½ W. Main St., Oklahoma City, \$13,727; Wharton County—9.6 mi. grading and drainage structures, Dean Ward, Itasca, \$34,785; bridge and concrete approach, Highway No. 60, S. F. Vann, Trinity, \$22,823.

Tex., Denton—W. M. Jagoe has contract to pave 20 to 30 blocks streets with asphaltic cement on reinforced concrete base.

Tex., Fort Worth—City let contracts at \$233,428 to hard surface 20 streets, including Fort Worth-Dallas Pike, between Meadowbrook Drive and Ayers Ave.; General Construction Co., 403 Cotton Exchange Bldg.; West Texas Construction Co., 504 Cotton Exchange Bldg.; Colglazier, Hoff & Everett, Inc.; Standard Paving Co.; Thurber Construction Co., F. & M. Bank Bldg.; all Fort Worth; D. L. Lewis, City Engr.

Tex., Groesbeck—Limestone County Comr. Court, J. B. Watson, Jr., County Auditor, let contract to W. E. Dozier, American Natl. Bank Bldg., Austin, to complete 2 roads, totaling about 8 mi., in Mexia Dist.: Mexia-Shiloh: Pershing Way; from X-All highway south of Mexia to Confederate reunion grounds; 8-in. rock, 1½-in. asphalt.

Tex., Houston—Harris County Comr., Norman Atkinson, County Judge, let contract to Hanson & Pierce at \$126,000, for 2 sections Galveston-Houston Highway, totaling about 4 mi.

Tex., Midland—Womack Construction Co., Sherman, has contract for 34,442 yd. excavation, reinforced concrete paving, concrete curbing and gutter; estimated cost \$120,000.

Va., Portsmouth—Norfolk County Comr., New Kira Bldg., let contract to Tunstall-Johnson Co., Citizens Bank Bldg., Norfolk, at \$27,007 for 1½-mi. 18-ft. concrete paving.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## Sewer Construction

**Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.**

Ala., Prichard—See Roads, Streets, Paving.  
Fla., Daytona Beach—City receives bids July 5 to furnish labor and material, etc., for sewer on N. Beach St. See Want Section—Bids Asked.

Fla., Miami—Central Station Equipment Co., Seybold Bldg., has contract at \$229,186 for sewers. 6-2

Fla., Ocala—Board of Commrs. State Institution, Tallahassee, receives bids June 28 for sanitary sewer along King Ave. See Want Section—Bids Asked.

Fla., St. Augustine—City receives bids July 5 to construct sewers. See Want Section—Bids Asked.

Fla., Vero Beach—Indian River Commrs. plan voting June 28 on \$250,000 bonds for enlarging, lengthening and widening inlet and erection of jetties.

Ga., Colquitt—City, Dr. E. B. Baugh, Mayor, defeated \$25,000 bond issue for sewerage system. See Financial News—Bond Issue Proposed. 6-2

Ky., Central City—Rufus & Watts, Vincennes, has contract for sewer. 5-19

Md., Baltimore—Board of Awards, receives bids June 29 to construct storm drains and sanitary sewers. See Want Section—Bids Asked.

Miss., Jackson—F. D. Harvey, Memphis, reported, has contract at \$73,160 for sewerage and Choctaw Machinery Co., for sewer pipe.

Mo., Springfield—Will F. Plummer Construction Co., Union Natl. Bank Bldg., constructing sewer system through Phelps Grove Park.

N. C., Ahoskie—Ahoskie Town Council let contract to R. E. White, of Aulander, for extension of town's main sewage disposal line to run of Ahoskie Swamp.

N. C., High Point—See Water Works.

S. C., North Augusta—Town Council receives bids June 24 for sewers. See Want Section—Bids Asked.

Tenn., Jackson—See Roads, Streets, Paving.  
Tenn., North Chattanooga, Branch Chattanooga—City, W. S. Beck, Mayor, voted \$80,000 sewer bonds. 5-19

Tex., Alamo Heights, P. O. San Antonio—City voted \$120,000 sewer bonds. See Financial News—Bond Issues Proposed. 5-19

Tex., Amarillo—City receives bids July 4 for storm sewer system; John B. Hawley, Engr., 402 Cotton Exchange Bldg., Fort Worth.

Tex., Austin—City, Adam R. Johnson, considering storm sewers. See Financial News—Bond Issues Proposed.

Tex., Houston—City, G. L. Fugate, Prin. Asst. Engr., advises, have plans under preparation for enlarging North Side sewage treatment plant; plans include grit chamber, new aerating tanks changing present settling tank into aerating tanks and constructing clarifying tanks with necessary equipment such as pipe lines, sludge pumps and air equipment; \$200,000 available. 6-9

Tex., Palmer—City, reported, considering installing sewerage system. Address The Mayor.

Tex., Pampa—City votes about July 15 on sewer and water bonds. See Financial News—Bond Issues Proposed.

Tex., Perryton—City voted \$70,000 sewer bonds. Address The Mayor. 4-14

Tex., Texarkana—City plans \$150,000 sewer extensions. Address The Mayor. See Financial News—Bond Issues Proposed. 5-12

Va., Pocahontas—City, reported, install sewer and water system. Address The Mayor.

Va., Richmond—City, Allen J. Saville, Engr., reported, soon let contract for Westhampton sanitary sewer. 5-19

Va., Richmond—Advisory Board let contract at \$16,167 to C. P. Lathrop, Spottswood and Leigh Sts.; bids on concrete pipe made by Concrete Pipe and Products Co.; and to Lock Joint Pipe Co., Ampere, N. J., at \$28,713 for precast reinforced concrete pipe.

Va., Richmond—C. P. Lathrop & Co., Rockets Wharf, has contract for concrete sewer pipe.

Va., Suffolk—Chamber of Commerce, re-

ported, interested in sewerage system in East Suffolk.

W. Va., Huntington—City, Board of Commrs. receives bids July 5 to construct sewers. See Want Section—Bids Asked.

W. Va., Huntington—W. F. Kahler, 101 Richmond St., is low bidder on Bridge St. sewer; George Henkle, 1737 Sixth Ave., low bidder for sewer on 26th St.

W. Va., Huntington—John D. Greenwade, 2687 Collis Ave., reported, has contract at \$11,000 for project 4 of the Four Pole sewer.

## Telephone Systems

Ala., Decatur—Southern Bell Telephone and Telegraph Co., main office Atlanta, Ga., reported, expend \$100,000 to rebuild telephone system.

Ark., Pine Bluff—A. A. Garrett, Dist. Mgr. of Southwestern Bell Telephone Co., main office St. Louis, Mo., announced \$170,000 expenditure for new telephone equipment in State; routine work in Arkansas for second quarter involves \$135,000. 6-16

Ark., Pine Bluff—Dollarway and Sheridan Pike Telephone Co., incorporated; M. F. McCain, M. Lowe, R. W. Woods, 111 N. Oak St.

Fla., La Belle—Interstate Telephone Co., reported, to expend \$10,000 to install new equipment and renovating of office.

N. C., King—King Telephone Co., capital \$50,000, incorporated; Fred E. Shore, V. T. Grabs, R. A. Moore, of Rural Hall

Okla., Oklahoma City—Southwestern Bell Telephone Co., 1010 Pine St., St. Louis, Mo., let foundation contract for \$1,000,000 administration and equipment building to Westlake Construction Co., Rwy. Exchange Bldg., St. Louis, at \$155,000; Layton, Hicks & Forsyth, Archts., Braniff Bldg.; W. J. Knight & Co., Engrs., Arcade Bldg.; struct. steel to Mississippi Valley Structural Steel Co., Arcade Bldg., both St. Louis. (See Contracts Awarded—Bank and Office.)

Okla., Osage—Oklahoma Telephone Co., Hominy, reported, purchased Osage telephone exchange, will install and improve switchboard.

Okla., Sattuck—Panhandle Telephone and Telegraph Co. of Amarillo, reported, acquired Northwestern Telephone Co.

S. C., Myrtle Beach—Conway Telephone Co., will construct telephone service between Myrtle Beach and Conway connecting with Southern Bell Telephone.

Tenn., Chattanooga—Southern Bell Telephone and Telegraph Co., main office Atlanta, Ga., reported, let contract to Bender, Beckam and Crox. James Bldg., for grading and excavating work to erect main telephone exchange on cor. of 10th and Lindsay Sts., will install automatic equipment; probably 8 stories; cost automatic equipment; probably 8 stories; wires \$2,000,000 expansion program includes outside plant, central office equipment and buildings; our plans now contemplate 2 moderate size buildings, but have not yet been given architects.

Tenn., Big Springs—Southwestern Bell Telephone Co., St. Louis, Mo., reported, install telephone system.

Tenn., Texarkana—Midcontinent Telephone Co., incorporated; C. C. Casteel, Cecil B. Baker, E. L. Andrews, Jr.

Va., Raphine—W. C. McCormick, reported, rebuild burned building to contain post-office and telephone exchange.

Va., Roanoke—Chesapeake and Potomac Telephone Co. of Virginia, N. O. Wood, Mgr., Richmond, reported, to expend \$127,645 for installation of additional facilities.

W. Va., Welch—Bluefield Telephone Co., Bluefield, will erect 2-story, fireproof building and install additional equipment.

## Textile Mills

Ala., Montgomery—Ward, Sterne & Co., Mark & Co., both Birmingham, and First National Bank of Montgomery, offering issue of \$500,000 first mortgage serial 7% bonds of West Boylston Mfg. Co. of Alabama at 100 and interest; company is erecting mill building, warehouse and cottages. 6-16

Ala., Opp—Opp Cotton Mills, will erect addition; 108x215 ft., brick; 5000 spindles and 160 looms; cost \$50,000.

Md., Cumberland—Celanese Corporation of America, New York office, 156 26th St., Arthur J. Fitch, Works Mgr., advises: "Contractor George F. Hazelwood, Cumberland, for 3 buildings at Amelle with floor space of 105,000 sq. ft., of unusual type of construction; hollow tile and steel superstructure on concrete foundations with special gypsum roofs and maple flooring in some and concrete floors in others; buildings for most part saw tooth roof, but in

some sections are 2 or 3 stories high; other additions immediately contemplated under present building program, are for area of 275,000 sq. ft.; company has secured and set aside \$5,500,000 which will be spent immediately for new buildings and equipment." The company will vote July 18 on increasing capital stock from 1,130,000 to 1,400,000 shares and to approve offerings to common stockholders of right to subscribe pro rata to 120,000 shares of additional stock at \$50 a share; increase in capital stock of corporation from 1,130,000 shares as at present authorized, consisting of 150,000 shares of 7%, cumulative \$100 par first participating preferred stock, and 880,000 shares of no par common stock, to 1,400,000 shares, to consist of 250,000 shares of 7%, cumulative first participating preferred stock and 1,000,000 shares of no par common stock; 250,000 prior preferred shares and 120,000 common shares will be underwritten by Robt. Fleming & Co. of London; company recently let contract for first 3 units at Amelle plant. 6-16

N. C., Chadbourne—Chadbourne Cotton Mills, incorporated; D. R. Connor, F. T. Brunning, has leased building, will install 6000 spindles and 40 dobby looms for making bed spreads and damask.

N. C., Concord—Brown Manufacturing Co., of Concord, Harvey Moore, Sec., let contract to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg., Cleveland, to erect addition; 32,000 sq. ft.; cost \$40,000.

N. C., Gastonia—Gastonia Weaving Co., is expending \$50,000 for improvements.

S. C., Westminster—Chamber of Commerce, Oscar Truck, Sec., advises interested in having textile plant locate here; will give site according to nature and size of plant.

Tenn., Chattanooga—Stockholders of Crystal Springs Bleachery Co., Chickamauga, Ga., reported, voted to accept proposal of D. A. Jewell and associates to purchase bleachery; under new plans of reorganization capital will be \$2,000,000, of which \$1,000,000 will be common and \$1,000,000 preferred.

Tex., Houston—Houston Textile Mills, E. Montgomery Rd., let contract to Standard Construction Co., Esperson Bldg., for 1-story warehouse annex; 80x100 ft., frame and stucco; cost \$10,000.

## Water Works

**Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.**

Ala., Greenville—City purchased 10 and 6-in. water pipe from National Cast Iron Co., Birmingham, for extension of water system; cost of improvements \$10,000.

Ala., Prichard—See Roads, Streets, Paving.

Ark., Paragould—Arkansas Utilities Co., care of Community Power and Light Co., 408 Pine St., St. Louis, Mo., reported, applied for franchise to acquire and operate Paragould Water Works system.

Fla., Daytona Beach—City receives bids July 5 for water mains. See Want Section—Bids Asked.

Fla., Fort Lauderdale—City Coms., reported, let contract for plaster work at water treatment plant to H. B. Becker and L. Hunt; Andrews-Fay Construction Co., Commercial Arcade, Miami, has contract for main filtration and water softening plant; Solomon, Norcross & Keis, Consnl. Engrs., Candler Bldg., Atlanta, Ga. 12-9

Ky., Ashland—City, reported, construct reservoir. Address The Mayor.

La., Columbia—See Electric Light and Power.

La., Roseland—Town receives bids July 14 for water works system. See Want Section—Bids Asked.

Md., Baltimore—Board of Awards receives bids July 6 for repairs and replacements to Montebello filters. See Want Section—Bids Asked.

Miss., Magnolia—City, reported, let contract to Layne-Central Co., 129 Poindexter St., Jackson, Miss., for deep well pump; 1,000 gal. fire pump and 500 gal. service pump complete with Sundh electric fire control panels to Fairbanks, Morse & Co., New Orleans, La.; installation will be handled through office of Henry Mentz, Consnl. Engr., Hammond, La.

Mo., Cape Girardeau—Missouri Utilities Co., reported, construct \$175,000 water works plant. 6-16

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

Mo., Springfield—City Park Board, Wm. L. McCurdy, Supt., reported, plans dam at east end of lake in Phelps Grove Park.

N. C., Charlotte—Pinoca Manufacturing Co., reported, develop mill village in connection with silk manufacturing plant; city may lay pipe line \$10,000 8-in. in diam. from reservoir to mill property.

N. C., Hickory—City votes Sept. 6 on \$30,000 water bonds. Address The Mayor.

N. C., High Point—City, reported, plans water and sewer bond issue. See Financial News—Bond Issues Proposed.

N. C., Raleigh—City let contract to J. E. Beaman Construction Co., Lawyer's Bl., for pumping station at Rand Mills' reservoir. 6-19

N. C., Rockingham—Town receives bids July 7 for purification plant. See Want Section—Bids Asked.

Okl., Konawa—Town let contract to Earl W. Baker & Co., 418 Medical Arts Bldg., Oklahoma City, for \$60,805 sewer system and \$12,220 water works system; install double hopper Imhoff tank, deep well pump; Milliken-Whitenack, Engrs., Box 893 Oklahoma City. 6-9

Okl., Tulsa—City will purchase 2000 water meters for a year's supply. Address The Mayor.

S. C., Charleston—City, Comms. of Public Work, adopted report of James E. Gibson, City Engr., recommending Edisto River as permanent water supply source for city; will petition city council for permission to borrow \$300,000 for project, estimated cost \$482,000; J. W. Ledoux, Hydraulic Engr., 112 N. Broad St., Philadelphia, Pa. 6-19

Tenn., Elizabethton—Mountain Springs Water Co., R. C. Alexander, Pres., receives bids July 1 for material for water works. See Want Section—Bids Asked.

Tenn., Knoxville—Holston Hills Realty Co., Dandridge Park, plans to extend 6-in. line 11,100 ft. long to subdivision; also plans 6350 ft. of 4-in. and 20,000 ft. of 2-in. line in property; expend \$36,000; City Council authorized connection with city mains.

Tenn., Whiteville—City voted water works bonds. See Financial News—Bond Issues Proposed.

Tex., Laredo—Central Power and Light Co., Frost Bldg., San Antonio, receives bids July 7 for pumping station and filter plant. See Want Section—Bids Asked.

Tex., Midland—Pittsburgh Des Moines Steel Co., Dallas, has contract for 100,000 gal. winter tank and tower. 5-26

Tex., Pampa—See Sewer Construction.

W. Va., Grafton—City votes July 12 on \$140,000 filtration plant bonds.

Va., Pocahontas—See Sewer Construction.

## Woodworking Plants

Ark., Ward—Ward Business Men's League, reported, erect ax handle factory.

N. C., Hendersonville—Brunson Furniture Co., capital \$100,000, incorporated; J. N. Brunson, Nellie Brunson, H. C. Quarles.

Tenn., Memphis—Desota Hardwood Flooring Co., 1014 Sledge St., let contract to Silk & Chamber for dry kilns; cost \$20,000; Standard Dry Kiln Co., Shrine Bldg., equipment contractor. 6-16

Tex., Galveston—Miller Furniture Co., capital \$40,000, incorporated; Max Schreiber, Bernard Miller, 2907 N½ St.; Edward Schreiber.

Tex., Lyford—Home Lumber and Furniture Co., capital \$15,000, incorporated; A. J. Critchfield, B. P. Gamble, S. W. Jones.

Va., Richmond—Railway Handle Corp., Isham T. Wilkinson, Pres., Kenbridge, Va., reported, to erect buildings on Perdue St.

## FIRE DAMAGE

Ala., Mobile—Mrs. J. Pouncey's residence, 2458 Dauphin St.; loss \$6000.

Ark., Helena—Penrod-Jurden Co.'s bandmill; less \$30,000.

Ark.-Tex., Texarkana—Michael Meagher Hospital; loss \$75,000.

Ark., Wilmot—Stovall Drug Store, P. M. Stanley's building, Wilmot Bank, and S. C. Horton's building; loss \$57,000.

Fla., Fernandina—Brown and Braddock's sawmill on Atlantic Coastal highway, loss \$10,000.

Fla., South Jacksonville, Jacksonville—C. A. Martin's residence, Spring Park.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Ga., Macon—Butterfly Bakery, on First St., loss \$8000.

Ga., Macon—McCabe Chemical Co.'s plant; loss \$15,000.

Ky., Glasgow—Glasgow Hotel on E. Washington St., owned by Percival and Buford Williams; loss \$12,000.

Ky., Henderson—Tipple of Southland Coal Co., mine No. 2, loss \$31,500.

Miss., Hickory—O. S. Hopkins Lumber Co.'s mill and lumber sheds, loss \$30,000.

Mo., Joplin—Southwestern Bell Telephone Co.'s garage and warehouse, Tenth St. and Illinois Ave.; loss \$55,000; main office, St. Louis.

Okl., Okmulgee—Equipment at plant of Empire Refining Co., loss \$50,000.

Tenn., London—Grubb Motor Co.'s Building; loss \$15,000.

Tenn., Nashville—T. W. Hay's residence 2112 Carter Ave.; loss \$8000.

Tenn., Nashville—E. B. Hart Tobacco Co.'s building; loss \$50,000.

Tex., Athens—Athens Pottery building, loss \$20,000.

Tex., Corpus Christi—Alta Vista Hotel, loss \$40,000; address the Propr.

Tex., Hillsboro—The Walter garage.

Tex., Waxahachie—W. W. Koger Building, at 115-17 E. Main St.; loss \$15,000.

Va., Republican Grove—John Holland's merchandise store; loss \$20,000.

Va., Richmond—Clarence Cosby's Junk shop at 1523 E. Cary St.

## BUILDING NEWS

## BUILDINGS PROPOSED

## Association and Fraternal

Ga., Atlanta—International Order of Twelve Knights and Daughters of Tabor, erect \$10,000 business and lodge building, 328 Auburn Ave., N. E.; 3 stories, brick.

Ga., Columbus—Columbus Scottish Rite Bodies, Inc., A. P. Bugg, Pres., plan \$100,000 to \$125,000 temple, Second Ave.; brick, 3 stories; to be connected with present brick dwelling.

Md., Baltimore—Benevolent Protective Order of Elks, Marion A. Humphreys, Chmn., Bldg. Comm., approved plans for \$60,000 lodge building, E. Main St.; French Renaissance type, light buff brick, terra cotta trim, 3 stories, 39x150 ft., roof garden.

Md., Frederick—Francis Scott Key Post, American Legion, Alton Y. Bennett, member, considers clubhouse.

N. C., High Point—Young Men's Christian Assn. plans fund campaign to complete building.

N. C., Winston-Salem—Young Men's Christian Assn., Geo. W. Fisher, Gen. Sec., receives bids June 25 for furnishings for \$500,000 building; specifications from owner; Harold Macklin, Archt., 420 W. Fourth St., Winston-Salem; Sherman W. Dean, Consnl. Archt., Archt. Bldg. Bureau, International Comm., Y. M. C. A., 347 Madison Ave., New York; North-Eastern Construction Co., Contr., Nissen Bldg., Winston-Salem. 11-18-26

Okl., Beaver—Ancient Free and Accepted Masons erect \$10,000 fireproof lodge building; 2 stories, brick and hollow tile.

Okl., Enid—Salvation Army, care E. G. Bowen, selected R. W. Shaw as architect for \$20,000 citadel; brick, 2 stories. 4-28

Tex., Port Arthur—Cosmopolitan Lodge No. 872, A. F. & A. M., A. E. Scott, Chmn., Bldg. Comm., probably call for bids within 30 days for brick temple; cost \$200,000, semi-Colonial type, white stone trim, 3 stories, mezzanine and roof garden, 100x85 ft., four 22-ft. stone pillars; Wm. B. Ittner, Inc., Archt., 408 Board of Education Bldg., St. Louis, Mo. 6-2

Ola., Birmingham—Southern Life & Health Insurance Co., 808 N. 21st St., receives bids June 27 for rein. concrete and limestone office building; cost \$200,000, 4 stories, 80x100 ft., marble, linoleum and cement floors, copper roof, concrete foundation; Warren, Knight & Davis, Archts., 1603 Empire Bldg.; following contractors estimating: Hetrick Engineering Co., Inc., Suite G-6 Terrace Court; Smallman-Brice Constr. Co., 1109 Ave. E.; Holley Construction Co., 817 19th St.; Southern Construction Co., 615 S. 11th St.; Day & Sachs, 2400 Avenue E; Chas. M. Allen & Sons, 408½ N. 19th St.; Inglenook Construction Co., 4011 First Ave.; E. G. Holladay & Sons, Martin Bldg., all Birmingham; Thompson-Starratt Co., 101 Marietta St.; A. J. Krebs Co., Walton Building, both Atlanta, Georgia. 5-5

N. C., Greensboro—Pilot Life Insurance Co., A. W. McAlister, Pres., Southern Life Bldg., let contract at about \$650,000 to Angle-Blackford Co., American Exchange Bank Bldg., for home office, Sedgefield; 3 fireproof

buildings of dark red brick, Indiana limestone trim, variegated slate roof, English Renaissance type, connected by brick and stone arcades; central structure 3 stories, basement and loft, 35,000 sq. ft. floor space, marble finished lobby, dumbwaiters; to be occupied by Pilot company; eastern building 12,000 sq. ft., occupied by McAlister group of fire insurance companies and divisions of Pilot company; western building for community building, cafeteria, kitchen, lockers, showers, classrooms, assembly hall seat 350, stage; Zantzinger, Borie & Medary, Archts., Otis Bldg., Philadelphia, Pa.; Harry Barton, Asso. Archt., Jefferson Standard Bldg., Greensboro; H. A. Hopf Co., Engr., 40 Rector St., New York; I. H. Francis, Consnl. Engr., 1520 Locust St.; Robt. B. Cridland, Landscape Archt., 308 S. Smedley St., both Philadelphia; low bids on heating from W. W. Dick, 246 Belmeade St., and M. MacKenzie, 349 N. Elm St.; low electrical bids from Michael & Bivens, Inc., 218 W. Market St., and J. L. Griffin, 111 N. Green St., all Greensboro. 5-12

Tenn., Cookeville—First National Bank of Cookeville erect bank and office building; Manley, Young & Meyer, Archts., 302 W. Church St., Knoxville.

Tex., San Antonio—Federal Reserve Bank, Col. C. C. Walsh, Chmn., Dallas, reported, plans \$125,000 to \$150,000 bank building, Bowens Island, Villita and Navarro Sts.; 2 stories and basement, 60x80 ft.; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., San Antonio. 6-16

Tex., San Antonio—Dr. F. L. Thomson, care Greyburgair Co., Maverick Bldg., considers office building, Travis and N. Alamo Sts.

Tex., San Benito—Central Power & Light Co., Frank C. Ludden, Dist. Mgr., remodeling old Farmers State Bank Bldg. for quarters; 2 stories; plate glass front on first floor.

W. Va., Clarksburg—Professional Building Co., Harry E. Pople, Pres., 209 S. Third St., remodel and add 2 stories to building. S. Third St. near Traders Ave.; brick, 75x90 ft., cost \$100,000; Albert Breternitz, Archt.

## Churches

Ala., Birmingham—St. Johns A. M. E. Church, 1430 N. Seventh Ave., erect \$20,000 addition; brick, 1 story, 65x103 ft.; day labor. Address the Pastor.

Ga., Brunswick—First Methodist Church, T. E. Glover, member, Bldg. Comm., plans \$60,000 Sunday school annex; H. M. King, Archt., care Board of Church Extension, M. E. Church, South, Louisville, Ky.

Ga., Buena Vista—Baptist Church, J. S. Burgin, Chmn., Bldg. Comm., erect \$10,000 building; 2 stories, 40x90 ft., brick veneer, pine floors, composition roof; John C. Martin, Jr., Archt., Tate Ave., Columbus; bids in.

Ky., Lexington—Porter Memorial Baptist Church, Rev. A. L. Goodrich, Pastor, 730 S. Limestone St., Lexington, Ky., receives bids June 25 for seating for \$60,000 auditorium under construction; John T. Gillis, Archt., Fayette Bank Bldg.; George iloskins Lumber Co., Contr., 611 E. Third St. 3-17

La., New Orleans—Canal Street Presbyterian Church have plans by Sam Stone, Jr. & Co., Archts., Masonic Temple Bldg., ready for bids in few days on church and Sunday school; brick, stone trim, 100x140 ft., composition roof, concrete and wood floors, steam heat, cost \$90,000. 4-21

Miss., Hazlehurst—Methodist Church probably ready for bids about 2 weeks on rein.

concrete and brick building; cost \$40,000, stone trim, composition roof, concrete and wood floors, art glass windows; Claude H. Lindsley, Archt., Lamar Life Bldg., JACKSON. 5-12

Miss., Ruleville—Baptist Church erect \$25,000 brick building; 2 stories; auditorium seat 400, classrooms, kitchen, dining room.

N. C., Winston-Salem—Trinity Moravian Church, Sunnyside Ave. and Sprague St., receives bids June 28 for Sunday school; brick, 3 stories, 50x100 ft.; Northup & O'Brien, Architects, Starbuck Bldg.

Tenn., McMinnville—Church of Christ receives bids June 27 for brick and stone building; cost \$40,000; Nevins & Oehmig, Architects, Ind. Life Bldg.

Tex., Brady—First Christian Church rejected bids for \$38,000 stucco building; L. Harrington Co., Archt.-Engr., Bldrs. Exchange, San Antonio. 6-16

Tex., Catarina—J. E. Jarratt, Frost Nat. Bank Bldg., receiving bids for community church; hollow tile and stucco, semi-fireproof, 1-story, about 53x62 ft., 1-story frame and stucco Sunday school wing, about 28x34 ft.; rein. concrete foundation; Ralph H. Cameron, Archt., City Nat. Bank Bldg., both, San Antonio. 5-5

Tex., Dallas—First Presbyterian Church soon let contract for 4-story Sunday school and recreation building, Wood and Harwood Sts.; cost \$115,000; C. H. Griesenbeck, Archt.-Contr., Indus. Bldg.

Tex., Fort Worth—Arlington Heights Methodist Church, Rev. E. H. Lightfoot, Pastor, plans to start work July 1 on \$150,000 building.

Tex., Marshall—Trinity P. E. Church, T. L. Whaley, Chmn., Bldg. Comm., erect \$20,000 Fry Memorial Parish house; work start July 15; 2 stories and basement, 38x73 ft., brick.

Tex., Plainview—Church of Christ accepted plans by J. C. Goodwin for building; ready for bids within few days. 5-19

Tex., Rock Springs—First Presbyterian Church receiving bids for frame and stucco building to replace structure destroyed by storm; 1 story, about 52x66 ft., tile roof; Paul G. Silber & Co., Architects, Bedell Bldg., San Antonio. 5-5

Tex., Terrell—Methodist Church receives bids June 23 at office A. H. Boyd for 2-story and basement brick veneer annex; cost \$35,000; plans from Mr. Boyd or J. G. Wells, Archt., Dallas. 6-2

Tex., Wichita Falls—Highland Heights Christian Church probably call for bids in few weeks for English-Gothic type building; brick and stone; main auditorium seat 1200, Sunday school 1800; cost \$250,000 exclusive of seating and furnishings; Faye & Thompson, Architects, City Nat. Bank Bldg. 12-9-26

Va., Bristol—Windsor Avenue Presbyterian Church, J. C. Henson, Chmn., Bldg. Comm., erect Sunday school.

Va., Norfolk—Port Norfolk Baptist Church, Rev. J. D. Brame, Pastor, plans building.

### City and County

Ark., Blytheville—City votes July 12 on city hall bonds; cost about \$80,000; Uzzell S. Branson, Archt., Farmers Bank Bldg. 4-7

Fla., Chipley—Washington County Board of Comms., selected site, Third St. facing Old Spanish Trail, for courthouse; issuance of \$200,000 bonds authorized; to move county seat from Vernon. 5-26

Ga., Valdosta—Lowndes County Board of Comms. remodel basement of courthouse; rest rooms, 2 or more new entrances.

Ky., Hopkinsville—Planters Bank & Trust Co., A. H. Eckles, Pres., is acting as trustee for proposed \$125,000 city and county public building and armory; open bids about Aug. 1; ordinary type, concrete, brick and frame, 2 stories, 134x150 ft., concrete foundation, built-up composition roof; contain theater to seat 1200 leased to Hopkinsville Amusement Co.; John T. Waller, Archt. See Want Section—Building Materials and Equipment. 6-9

Ky., Louisville—Louisville Memorial Auditorium Commission, W. E. Morrow, Sec., plans to call for bids within 30 days for memorial auditorium; cost \$1,000,000, including furnishings; Thos. Hastings of Carrere & Hastings, 52 Vanderbilt Ave., New York, architect; E. T. Hutchings, Asso. Archt., 418 S. Fifth St., Louisville. 8-12-26

Ky., Paducah—Chief Paducah Post, American Legion, interested in memorial building will request bond election.

La., Shreveport—City, L. F. Thomas, Mayor, selected Jones, Roessle, Olschner & Wiener, Ardis Bldg., as architects for \$500,000 municipal auditorium; Seymour Van Os, Merc. Bldg., Asso. Archt.; bonds voted. 3-17

La., Shreveport—Caddo Parish Police Jury, J. M. Sentell, Pres., receives new bids July 26 for furniture and fixtures for \$1,000,000 courthouse under construction by Glassell-Wilson Co., Inc., Sinclair Bldg.; plans and specifications from Edw. F. Neilb, Archt., City Bank Bldg. 6-2

La., Winnfield—Winn Parish Police Jury call election in July on tax to erect jail.

Mo., Kansas City—Kansas City Director of Fire receives bids June 24 for addition to and remodeling Fire Station No. 22, 37th and Woodland Sts.; also separate bids for steam heating plant.

Okla., Purcell—McClain County Board of Comms. selected Hawk & Parr, Cotton Exchange Bldg., Oklahoma City, as architect for \$80,000 courthouse and jail; bonds voted. 6-9

Tex., Austin—City, Adam R. Johnson, City Mgr., erect fire station in Hyde Park and one on East Ave.

Tex., Brownsville—City, Burt F. Hinkley, Sr., Fire and Police Commr., plans central fire station.

Tex., Dallas—Dallas County Board of Comms., Chas. E. Gross, County Auditor, have low bid at \$417,000 from Crisman & Nesbit, Lansing Bldg., for Hall of Records; low bid for electrical work, Wm. K. Grace Engineering Co., Kirby Bldg., \$27,000; plumbing bid, Hamilton Co., 2301 Griffin St., \$23,700; Lang & Witchell, Architects, Amer. Exchange Bank Bldg.

Tex., Fort Worth—City, Wm. Bryce, Mayor, may vote in Oct. on library bonds; also consider auditorium bonds.

Tex., Marshall—Harrison County Board of Comms. let contract to Joe Pressler for \$18,000 courthouse annex.

Tex., Mercedes—City, J. E. Haynes, Mayor, has low bid at \$32,453 from J. J. Schrank & Son for city hall; R. Newell Waters, Architect, Security State Bank Bldg., Weslaco. 6-9

Tex., San Angelo—Tom Green County, J. T. Mathison, County Judge, voted \$294,000 bonds for courthouse and courthouse furniture; Anton F. Horn, Jr., Archt., Thomas Bldg., Dallas; B. M. Morgan, Constr. Engr.

Tex., San Antonio—City of Alamo Heights, R. E. O'Grady, Mayor, voted \$350,000 bonds, including \$25,000 fire station and \$25,000 for equipment. 5-19

### Dwellings

Ala., Birmingham—Mrs. Irene B. Brooks, 2908 N. 27th St., erect face brick veneer residence; 1 story, pine and oak floors, tile bath, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.; plans complete.

Ala., Birmingham—R. F. Harvey, Bankers Bond Bldg., erect brick residence, Forrest Dale; 2 stories, 51x25 ft., composition roof, oak floors furnace; C. H. McCauley, Archt., 708 Jackson Bldg.

Ala., Decatur—John W. Knight, Thos. A. Bowles and Chas. H. Eyster interested in plan to erect dwellings for Connecticut Mills Co. operatives.

D. C., Washington—Clarence A. O'Brien, Security Savings and Commercial Bank Bldg., erect \$27,500 residence, 1615 Crittenton St. N. W.; 2 stories, brick.

D. C., Washington—Colley Bros. erect 5 brick dwellings, 2400-08 Thirty-seventh St. N. W.; 2 stories; total cost \$25,000.

D. C., Washington—Anna C. Harmon erect \$20,000 residence, 1710 Thirty-fifth Place N. W.; 2½ stories; brick.

D. C., Washington—T. A. Jameson, 909 New York Ave. N. W., erect 22 brick dwellings, 1801-43 Massachusetts Ave. S. E.; 2 stories; total cost \$110,000.

D. C., Washington—Geo. E. McNeil, Columbian Bldg., erect \$15,000 residence, 1430 Iris St. N. W.; 2 stories brick and tile.

D. C., Washington—Lillian M. Ordile, 1343 Franklin St. N. E., erect \$12,500 residence, 3523 Twelfth St. N. W.; 2 stories, brick and tile.

Fla., New Port Richey—Earl Benham, 15 E. 53rd St., New York, plans residence.

Fla., New Port Richey—Gene Sarazen, Fresh Meadow Country Club, Flushing, N. Y., plans residence.

Fla., New Port Richey—Thos. Meighan, erect \$50,000 residence, Jasmin Point; Thos. R. Martin, Archt., 312 Main St., Sarasota.

Fla., St. Petersburg—T. M. Lassing, erect residence, Sixth Ave., North, and 78th St.; 28x42 ft., 2 stories; Henry Kohler, Archt.

Fla., Tampa—S. E. Thomason, care Tampa Tribune, erect \$75,000 residence, Davis Islands; Franklin O. Adams, Archt., 510½ Franklin St.

Ga., Atlanta—Avondale Estates, G. F. Willis, Owner, 63 N. Broad St., erect 50 additional dwellings; 10 in first unit; majority English cottage type.

Ga., Columbus—Mike Cohn remodel and enlarge residence; frame, metal shingle roof, hardwood floors; F. Roy Duncan, Archt., Exchange Bldg.

Ga., Macon—J. T. Adams, 637 Vineville Ave., erect \$12,000 residence, Vineville Ave. and Beverly Place; brick and tile, 10 rooms.

La., Lafayette—G. G. Hughes erect brick veneer residence; 1 story, pine and oak floors, shingle roof, tile bath; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas Tex., plans complete.

La., New Orleans—David E. Verlander, 423 Balter Bldg., erect \$10,000 brick residence, Versailles Blvd., near Calhoun St.; tile roof, 2 stories, 36x39 ft.

La., New Orleans—C. B. Cox, erect number Colonial dwellings, Homeland Estates; white clapboard, green blinds, polished redwood walls, beamed ceilings, concrete foundations; Sam Stone, Jr. & Co., Architects, Masonic Temple Bldg.

La., New Orleans—J. D. Burnett, 8131 Plum St., erect 2 frame and stucco duplexes, Willow and Soniat Sts.; 2 stories, tile roofs, oak floors, tile baths, copper screens, warm air heat; ready for sub-bids about 1 week.

La., New Orleans—Weiss, Dreyfous & Selfreth, Architects, Maison Blanche Bldg., ready for sub-bids in about 1 week on 2-story frame and stucco dwelling Audubon Blvd.

La., New Orleans—Gus A. Hoth, 3907 St. Claude Ave., receiving bids for single brick and frame residence, Alvar and Marais Sts.; plans and specifications from John T. Boesch, Archt., 1307 France St.

La., New Orleans—Henry Uthoff, 713 Camp St., erect brick raised residence, Vincennes Place and Gen. Taylor St.; tile roof, tile baths and porches, oak floors, electric refrigerator, copper screens, warm air heat; Lockett & Chachere, Architects, Title-Guarantee Bldg.

La., New Orleans—Mrs. L. W. Prutsman, 1436 Webster St., receives bids June 24 for hollow tile and stucco residence, Webster St. near St. Charles Ave.; 2 stories, ornamental iron balconies and railings, tile baths, copper screens, warm air heat.

Md., Arnold—H. M. Sandrock, 724 Washington Blvd., Baltimore, erect summer residence, Briar Cliff.

Md., Baltimore—Joseph Peters, Falls Rd., erect number dwellings on tract from Falls Rd. to Roland Park; plans ultimately 350 dwellings.

Md., Baltimore—Sidney T. Dyer, erect 53 brick dwellings, Friendship St. W. of Garrett St. and Belmont St. at Taylor and Garrett Sts.; 2 stories; total cost \$150,000.

Md., Baltimore—R. B. Construction Co., 2712 Reisterstown Rd., erect 13 brick dwellings, E. side Granada Ave. near Barrington Rd.; 2 stories; total cost \$26,000.

Miss., Laurel—Dr. T. Ford Leggett erect face brick veneer residence; 1 story; shingle roof, pine and oak floors, tile bath; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.; plans complete.

Miss., Winona—First Methodist Church, erect \$10,000 parsonage. Address The Pastor.

Mo., Clayton, St. Louis—Wm. Remmert, 412 Polo Drive, erect 2 brick dwellings, Wallace Terrace; 37x31 ft.; total cost \$24,000.

Mo., Clayton, St. Louis—P. E. Bauer, 3622 Page St., erect \$12,000 residence, Moorlands Addition; 28x36 ft.

Mo., Kansas City—H. H. Wright, 207 Davidson Bldg., erect \$15,000 residence, 808 Greenwood Way.

Mo., Moberly—Bell Bros., Contrs. plan number dwellings, Sunset Heights.

Mo., St. Louis—B. Shinkle, 5183 Portland Place, alter 3-story brick residence, cost \$15,000; Mauran, Russell & Crowell, Architects, Chemical Bldg.

Mo., St. Louis—A. Geler, 911 Chestnut St., erect \$12,000 residence, 4943 Wabasha St.; brick, 2 stories, 40x28 ft., shingle roof, hot water heat; F. G. Avis, Archt., 7246 Manchester St.

N. C., Greensboro—R. C. Millikan, Tabernacle Rd., erect \$10,000 brick veneer residence, Market St. near Ridgeway St.; 2 stories, 8 rooms, composition roof.

N. C., Greensboro—D. L. Kennerly, Schenck St., erect \$13,000 stone residence, Madison Ave. near Tremont Drive; 2 stories, 9 rooms, tile bath.

Okl., Oklahoma City—Ida Hoover erect 3

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

duplexes, 1800-04 W. 14th and 1413 N. Indiana Sts.; cost \$5000 each.

Okl., Oklahoma City—R. E. Bradshaw, 1201 W. 46th St., erect 3 dwellings, 1205-14 W. 46th and 1234 W. 47th Sts.; cost \$4000 each.

Okl., Tulsa—H. D. Mason, Atlas Life Bldg., erect \$60,000 residence and garage; brick veneer, 2 stories and basement; A. M. Atkinson, Archt., Mid-Continent Bldg.

Okl., Tulsa—J. C. Reddin and Robt. E. Adam, both Exchange Natl. Bank Bldg., erect 2 brick dwellings, 200-64 E. 29th St.; cost \$8000 each; garages \$500 each.

Okl., Tulsa—M. H. Silverman, Exchange Natl. Bank Bldg., erect brick veneer residence and garage; 2 stories and basement; Donald McCormick, Archt., Atlas Life Bldg.

S. C., Columbia—T. C. Brown, Clark Law Bldg., erect residence, Woodrow St. and First Ave.

S. C., Greenville—J. M. Black erect \$10,000 residence, 23 Fairview Ave.

S. C., Spartanburg—N. O. McDowell, Inc., 221 E. Main St., erect 3 dwellings, E. Centennial St. and 3 on Aimee St.; total cost \$12,900.

Tenn., Knoxville—N. L. Kolph, 1308 N. Broad St., erect \$10,000 frame residence, Fairmont St.

Tenn., Memphis—R. P. Patterson, 1900 Tutwiler Ave., considers 15 dwellings, Scott Ave.; wide siding, 1 story, 3 and 4 rooms, composition shingle roof, pine floors; total cost \$25,000.

Tenn., Memphis—Robt. Galloway plans country residence, White Station to Capleville Road.

Tex., Beaumont—Ed Fears erect \$10,000 residence, Del Mar; 2 stories, tile and stucco.

Tex., Beaumont—J. H. Phelan, 585 Fourth St., erect \$150,000 Colonial residence, Calder Rd. and 11th St.; landscape.

Tex., Beeville—Bernard Wood erect 2-story residence.

Tex., Childress—B. Simmon erect residence; cost about \$10,000.

Tex., Childress—Frank Duboise, City Engr., erect residence, Reed addition; material on ground.

Tex., Corsicana—Dr. Homer B. Jester, erect \$16,300 residence.

Tex., Corsicana—M. L. Levine, erect \$20,000 residence.

Tex., Fort Worth—V. C. Guthrie, 909 Throckmorton St., erect \$25,000 brick veneer residence, 2301 Winton Terrace.

Tex., Fort Worth—W. J. Bisco, 1712 E. Daget St., erect \$21,500 brick veneer residence, 2336 Medford St.

Tex., Houston—A. Zarzana, 3002 Buck St., erect 7 frame dwellings, 3701-13 Liberty Rd.; 4 rooms and bath each; total cost \$10,500.

Tex., Houston—O. C. Wiesner erect \$18,250 brick veneer residence, 4718 Bell St.

Tex., Houston—Chas. Welch erect \$10,000 residence, 2105 Wichita St.; brick veneer, 9 rooms.

Tex., Houston—W. E. Pace erect 5 brick veneer dwellings, W. Dallas St.; 8 rooms; total cost \$62,500.

Tex., Houston—Joe C. Brown, Westheimer Bldg., erect \$20,000 residence, Shadowlawn; 2 stories, 8 rooms; Cameron D. Fairchild, Archt., Public National Bank Bldg.; plans completed.

Tex., Houston—Hugh Wilkin, Pres., Beaconsfield Realty Co., 1708 Main St., purchased 52 lots, Harbordale Addition; plans eventual erection of dwellings; total cost \$100,000.

Tex., Palestine—W. C. Wylie, Principal, Davy Crockett Junior High School, erect residence, Michaux Ave. near Royal St.

Tex., San Antonio—R. C. Boettcher, care Richard Vander Straten, Archt., Travis Bldg., erect \$15,000 frame and stucco residence; tile roof, 2 stories; bids in.

Tex., San Antonio—W. C. Johnson, 1628 Soledad St., erect \$10,000 residence, Bushnell St.; 7 rooms.

Tex., Sonora—M. L. Aldwell receives bids June 25 at office Will N. Noonan Co. Builders Exchange, San Antonio, for remodeling and second-story addition to residence; cost \$10,000.

Tex., Wichita Falls—Fitzhugh Hurley erect \$30,000 residence, Country Club Estates; brick, tile roof, 7 rooms; David R. Williams, Archt., both Perkins-Snider Bldg.; plans completed.

Va., Schoolfield, Danville—Riverside & Dan River Cotton Mill Co. receives bids June 25 for 50 four-room cottages near Bishop Ave.; total cost about \$100,000.

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## Government and State

Md., Baltimore—State selected Wm. Gordon Beecher, 12 E. Pleasant St., as architect for \$160,000 building, Guilford Ave. and 21st St. for Department of Motor Vehicles, E. Austin Baughman, Commr., 300 St. Paul St.

Okl., Oklahoma City—State Board of Affairs, G. C. Wollard, Chmn., selected Jewell Hicks, 1600 Classen St., as architect for \$100,000 Governor's mansion.

Va., Raphine—W. C. McCormick rebuild burned post office and telephone exchange building.

W. Va., Charleston—Legislature passed bill authorizing construction of main unit of State Capitol to cost not more than \$5,000,000, creating capitol commission and appropriating \$150,000 for completing detailed plans; Cass Gilbert, Archt., New York.

## Hospitals, Sanitariums, Etc.

Ark., Blytheville—City votes July 12 on \$65,000 bonds to purchase, remodel and operate hospital.

Ark., Hot Springs National Park—Baptist National Hospital Assn., Inc., Wm. Cooksey, Vice Pres.-Gen. Mgr., plans general hospital; first unit \$500,000; raising funds; Hubert T. McGee, Archt., Fidelity Bank Bldg., Memphis, Tenn.

La., Monroe—Drs. Vaughn, Wright and Bendell, all Ouachita Bank Bldg., erect \$100,000 clinic; reinforced concrete, brick, stone trim, fireproof, 4 stories, steel sash, electric elevators; J. W. Smith & Associates, Archts., Ouachita Bank Bldg.

Miss., Ripley—Dr. W. M. Marsh erect 1-story brick building for clinic; 9 rooms; X-ray machine.

Mo., Festus—Jefferson County defeated hospital bonds.

N. C., Charlotte—Louis H. Asbury, Archt., 1514 E. Fourth St., Charlotte, drawing plans for hospital at Jackson Training School.

Okl., McAlester—Albert Pike Lodge of Perfection, A. A. S. R., erect 3-story building at Albert Pike Hospital.

Okl., Oklahoma City—State Board of Affairs, G. C. Wollard, Chmn., selected Jewell Hicks, 1600 Classen St., as architect for \$330,000 hospital for crippled children, connection with State Univ. Medical School. 4-28

S. C., Greenville—City, Richard F. Watson, Mayor, votes July 12 on \$275,000 bonds, including \$25,000 for nurses' home at City Hospital. Incorrectly noted under N. C., Greensboro.

S. C., Spartanburg—Mary Black Clinic, H. R. Black, Prop., 309 E. Main St., receives bids June 20 for \$50,000 addition; J. B. Simpson, Archt., Montgomery Bldg.

Tenn., Memphis—Shelby County votes June 30 on \$100,000 bonds for Oakville Memorial Sanitarium. Address County Comrns.

Tex., McAllen—City, F. B. Freeland, Mayor, receives bids June 28 (extended date) at office Harvey P. Smith, Archt., Nat. Bank of Commerce Bldg., San Antonio, for rein. concrete, brick and hollow tile hospital; cost \$100,000, 3 stories and enclosed roof, composition and tile floors, steam heat; separate bids at same date for plumbing, heating, electrical wiring and refrigeration.

Va., Richmond—Rev. A. W. Brown, Pastor, Sixth and Mount Zion Baptist Church, interested in \$200,000 for colored hospital adjoining Union University; raising funds.

## Hotels and Apartments

Ark., Little Rock—Hotel Marion, H. G. Manning, Mgr., has plans in progress by Mann & Stern, 705 A. O. U. W. Bldg., for remodeling; cost \$40,000.

Fla., Jacksonville—A. K. Solomon, erect \$14,000, 2-story, frame apartment house on DeWitt St.

Fla., Pahokee—George and John Wolf, Edward Conroy and Thomas Mead, reported, erect hotel and bathing pavilion.

Ga., Atlanta—Roy Pendleton erect \$100,000, 1-story, brick veneer apartment building at 388-90 N. Highland Ave. N. E.

La., Jennings—Mrs. E. A. Underwood, Crowley, purchased Mahaffey block; will remodel and rebuild into hotel; hot and cold running water, steam heat, contain 40 rooms, lobby, rest room; cost \$25,000.

La., New Orleans—John D. Nix, Jr., Marine Bldg., make alterations and repairs to rooming house at 848-50 St. Charles St.; \$15,000.

La., New Orleans—James Demourelle & Sons, Inc., 1525 Toulouse St., purchased property on Aubudon St. between Burthe and

Freret Sts., reported, will erect apartment houses.

Miss., Pass Christian—Gray Castle Cottage Colony, Inc., William J. Couturie, Pres. & Treas., Cotton Exchange Bldg., New Orleans, La., purchased home in East End, will remodel into hotel; add 40 additional rooms and build cottages.

Mo., Hollister—W. W. Johnson, 301 College St., Springfield, soon have plans by Earl Hawkins, 406 McDaniel Bldg., Springfield, for \$15,000, 1-story and basement apartment building; hot air heat, wood floors, stone and stucco.

Mo., St. Louis—Rhodes Realty Co., care J. J. Wessling, 1019 Pine St., has plans in progress by O. J. Popp, Arcade Bldg., for \$150,000, 3-story and basement, brick and reinforced concrete, 124x86 ft., 42-unit apartment building at Bellevue and Wise Sts.; steel joists, built-in cabinets, electric refrigeration, incinerator, vapor heat.

Mo., St. Louis—John H. Wartman erect 2-story and basement, brick, 35x65 ft., 4-unit apartment house, Amherst Place; 4-car garage in rear, concrete foundation, composition roof, tile baths, incinerator; Eugene H. Paulus, Archt., 4955 Northland Place.

N. C., Charlotte—Lex Marsh, Jr., 24 E. Fourth St., erect \$10,000, brick veneer, 20-room apartment house at 528 Beaumont Ave.

N. C., Durham—T. W. McCracken erect \$10,000, 2-story, brick veneer, two 6-room apartments building on College Road.

N. C., Mount Airy—S. C. Stewart planning \$110,000, 80 to 100 room hotel, cor. Franklin and Willow Sts.

N. C., Winston-Salem—Joseph C. Smith erect \$13,000, 36-room apartment house on Seven and Half St.

Tenn., Memphis—Thomas & Cohen, 235 McLean Blvd., have plans in progress by Estes W. Mann, Cotton Exchange Bldg., for 16-apartment building on S. McLean Blvd.

Tenn., Memphis—Mrs. R. Groskind, 110 Jefferson St., soon receive bids on 2-story and basement, brick veneer, 34x85 ft. apartment building, Lauderdale St. near Vance Ave.; composition roof, oak floors, hot water heat; Polk W. Agee, Archt., 1315 Fidelity Bank Bldg.

Tenn., Murfreesboro—Jesse C. Beasley, Sr., chmn. general of campaign to sell bonds for proposed hotel.

Tenn., Nashville—O. F. Usher, 1202 Pennock Ave., erect \$16,000, 2-story, brick veneer, 16-room apartment house at 204 Reidhurst Ave.

Tex., Brownwood—Tom Posey heading company to erect \$300,000, fireproof, 150-room, brick and reinforced concrete, 5-story, 150x200 ft. hotel building, cor. Center and W. Adams Sts.; will be operated by C. C. McBurnett, San Angelo; Anton F. Korn, Archt., Dallas; B. M. Morgan, Asso. Archt., San Angelo.

Tex., Fort Worth—R. Zimmerman, 311 Houston St., erect \$37,500, brick veneer apartment building at 1109-13 Jennings St.

Tex., Houston—James E. Smith, Public Natl. Bank Bldg., erect \$21,600, 8-apartment building at 4017 Bute St.

Tex., Houston—A. Eddison & Bro. erect \$18,000, 2-story, brick veneer, 4-apartment house and garage, 516 W. Gray St.; 4 rooms and bath each.

Tex., Houston—W. F. Smith, erect \$10,000, 3-room and bath, frame duplex at 4015 Texas St.

Tex., Houston—A. E. Olson & Bro., 1519 Milan St., erect \$18,000, 2-story, brick veneer, 4-apartment house 512 W. Gray St.; 4 rooms and bath each; garage.

Tex., San Antonio—American Building Co., 1615 W. Kings Highway, erect \$20,000 apartment house on W. Woodlawn Ave.

Tex., San Saba—Clay Kuykendall, Pres. Chamber of Commerce, T. A. Murray, Chmn. Hotel Committee, and W. C. Dofflemyer, Chmn. Sales Committee, sold \$62,000 in stock for 35-room hotel, cost \$96,000.

## Miscellaneous

Ark., Hot Springs—McCafferty Funeral Home, 520 Puachita St., remodel 1-story, brick funeral home, cost \$10,000; Wittenberg & Deloney, Archts., 807 Home Insurance Bldg., Little Rock.

Fla., Pensacola—F. C. Hecker, Century, planning boathouse on Baylan Street slip at Pine St.

La., New Orleans—Jones, Roessel & Olshner, Archts., Maison-Blanche Bldg., receive bids until June 27 for 2-story, 47x147-ft., hollow tile, frame and stucco mortuary building at 8416 Oak St., for Charles Betz & Son.

**8404 Oak St.**; tile and concrete floors, tile and composition roof, steel sash, plastered interior, structural iron and steel, hot water or vacuum heat.

**Md., Bowie**—Southern Maryland Agricultural Assn., James F. O'Hara, Gen. Mgr., Lexington Bldg., Baltimore, receive bids at once for rebuilding race course recently burned; grandstand to seat 10,000 to 12,000, steel and concrete, 200x400 ft.; also clubhouse and paddock; cost \$300,000 to \$350,000, equipment and furnishings \$50,000, cement floors and foundation, slag roofing; Fred Wright, Archt.-Engr., 217 N. Calvert St., Baltimore; address all proposals to Mr. Wright, care Race Track. See Want Section—Building Materials and Equipment. 6-16

**Md., Baltimore**—Baltimore Club, Charles and Madison Sts., receives this week for 4-story, brick, 40x40 ft., \$50,000 addition, in rear of present building; baths, showers and dressing rooms on first floor, grillroom and cardrooms on second floor, private dining rooms and kitchens on third floor, 7 bedrooms with baths on fourth; Buckler & Fenhausen, Archts., 325 N. Charles St.

**Miss., Hattiesburg**—Hattiesburg Country Club, H. S. Stevens, Pres., plans rebuilding clubhouse recently burned.

**N. C., Highlands**—Robert P. Jones, Atlanta Trust Co. Bldg., Atlanta, Ga., interested in future development of 500-acre tract, include 35-room clubhouse, 18-hole golf course, lake, etc.

**Tenn., Paris**—Country Club, John K. Currier, Jr., Pres., adopted tentative plans; receive bids about Aug. 1 for 1-story and basement, 60x60-ft. clubhouse; reinforced concrete basement and porch, shower baths. 3-31

**Tex., Brownsville**—Luis Rendon, Pres. Chamber of Commerce, promoting construction of exposition building in Matamoras.

**Tex., McAllen**—Harvey P. Smith, Archt., Alaska Bldg., San Benito, care R. O. Dietert, Valley representative, preparing plans for 2-story, 56x80 ft., frame and stucco, Spanish type bath house and dance hall.

#### Railway Stations, Sheds, Etc.

**Fla., Arcadia**—Seaboard Air Line Railway, W. D. Fauchette, Ch. Engr., Norfolk, Va., reported, erect depot.

**Tex., Belton**—Gulf, Colorado & Santa Fe Railway Co., F. Merritt, Ch. Engr., Galveston, reported, will erect new \$40,000 passenger station.

**Tex., Wichita Falls**—J. W. Chatham, traffic and industrial manager of Chamber of Commerce, announced work soon start on improvements to union passenger station.

#### Schools

**Arkansas**—State Dept. of Education, W. R. Curzon, Little Rock, completed plans for following buildings: Cotton plant, \$18,000, 131x65 ft.; Gregory, \$20,000, 100x80 ft.; Nashville, \$25,000, 72x78 ft., 1-story; Cushman, \$25,000, 72x78 ft.; Howell, \$18,000, 131x65 ft.; Newport, 39x58 ft.; Hilleman, 131x65 ft., \$18,000.

**Ark., Ashdown**—Board of Education, J. R. Bullington, Chmn., has plans by State Dept. of Education, W. R. Curzon, Little Rock, for \$20,000, 2-story, stucco, 65x80 ft. gymnasium; composition built-up roof, oak on concrete floors.

**Ark., Beebe**—Board of Education, R. H. McCollum, Chmn., has plans by State Dept. of Education, W. R. Curzon, Little Rock, for \$20,000, 1-story, stucco, 72x78 ft. Maple Grove School; built-up composition roof, oak floors on concrete.

**Ark., Cushman**—Board of Education, J. W. Wray, Sec. See Arkansas.

**Ark., Cotton Plant**—Board of Education, C. C. Hunnicutt, Supt. See Arkansas.

**Ark., Fouke**—Board of Education, W. J. S. Smith, Jr., Chmn., has plans by State Dept. of Education, W. R. Curzon, Little Rock, for 1-story, brick, 58x76 ft. addition and remodeling; composition roof, oak floors on concrete.

**Ark., Gregory**—Board of Education, Arnold Huenefeld, Pres. See Arkansas.

**Ark., Halstead** (mail Little Rock)—Board of Education, care C. J. Lemaire, R. F. D. No. 3. See Ark., Little Rock.

**Ark., Hilleman**—Board of Education, care R. W. Cole. See Arkansas.

**Ark., Howell**—Board of Education, care E. W. Keath. See Arkansas.

**Ark., Hope**—Board of Education, E. E. Austin, Chmn., has plans by State Dept. of Education, W. R. Curzon, Little Rock, for \$25,000, 1-story, stucco, 72x78 ft. McNabb School; built-up composition roof, oak

floors, 4 classrooms, combination auditorium-gymnasium.

**Ark., Lauratown**—Board of Education, John K. Gibson, Chmn., has plans by State Dept. of Education, W. R. Curzon, Little Rock, for \$20,000, 2-story, 65x80 ft. gymnasium; built-up composition roof, oak floors.

**Ark., Little Rock**—State Dept. of Education, W. R. Curzon, completing plans, action soon, for \$35,000, 2-story, brick, 12-classroom and auditorium school at Mabelvale; \$35,000, 12-room, brick or stone school at Scott; \$20,000, 2-story, brick school at Roland, and \$15,000, 1-story school at Halstead (mail Little Rock).

**Ark., Mabelvale**—Pulaski Special School District, W. W. Bolick, Sec. Board of Education. See Ark., Little Rock.

**Ark., Nashville**—Board of Education, H. L. White, Sec. See Arkansas.

**Ark., Newport**—Board of Education, care L. P. Mann. See Arkansas.

**Ark., Pottsville**—Board of Education, Oren L. Hays, Chmn., erect \$20,000, 2-story, 65x80 ft., stucco gymnasium; composition built-up roof, oak on concrete floors; plans by State Dept. of Education, W. R. Curzon, Little Rock.

**Ark., Roland**—Board of Education, H. P. Clay, Sec. See Ark., Little Rock.

**Ark., Scott**—Board of Education, Dr. H. Thibault, Pres. See Ark., Little Rock.

**Ark., Tontitown**—Father Joseph Lazzari has plans by State Dept. of Education, W. R. Curzon, Little Rock, for \$30,000, 2-story, concrete block, 56x90 ft. school building; composition roof, pine floors; second floor for living quarters for teachers and chapel.

**D. C., Washington**—District Commissioners, Room 509 District Bldg., ordered purchase of property at Concord Ave., Eighth and Ninth Sts. N. W., for proposed Brightwood Junior High School; Frank W. Ballou, Supt. of Schools.

**Fla., Clearwater**—Pinellas County Board of Public Instruction, Arthur Norwood, Chmn., rejected all bids for grammar school on 54th Ave. North, in Lealman District, and 6-room addition to Childs Park School in District No. 12, Gulfport; receive new bids on June 27; Fred Guy, Archt., 549 First Ave., St. Petersburg. 5-26

**Fla., Lakeland**—Polk County Board of Public Instruction, Bartow, call election July 5 on \$280,000 bonds for 2 new school buildings.

**Fla., Ormond**—Volusia County Board of Public Instruction, De Land, planning \$50,000 school annex.

**Fla., Winter Beach**—Indian River County Board of Public Instruction, Vero Beach, remodel present building and add 3 rooms.

**Ga., Athens**—Alumni Association of University of Georgia plans to raise funds to erect law school building.

**Ga., Hoboken**—Hoboken Consolidated School District, A. M. McCool, member Bd. of Trustees, votes July 2 on \$22,000 bonds for school building. 6-16

**Ky., Drakesboro**—Board of Education, M. C. Hughes, Supt., Greenville, received bids, action at once, on \$25,000, 2-story and basement, semi-fireproof High and Grade School; H. E. Boyle & Co., Archts., 402 Furniture Bldg., Evansville, Ind.

**Ky., Frankfort**—McHenry Rhoads, State Supt. of Public Instruction, announced plans for rebuilding school buildings in Eastern Kentucky, destroyed by flood.

**Ky., Morganfield**—Board of Education received bids for \$35,000, 2-story and basement, brick, stone and concrete, fireproof gymnasium and auditorium; A. E. Neucks, Archt., 601 Old State Bank Bldg., Evansville, Ind.

**Ky., Paducah**—McCracken County Board of Education receives bids June 27 for n-w high school at Lone Oak; plans from W. Brien Rouse, Archt., Weille Bldg.

**La., Baton Rouge**—Building Committee of School District No. 12, East Baton Rouge Parish, R. A. Hart, Chmn., receives bids July 12 for 2-story, brick school building at Hollywood; separate bids on heating and plumbing; plans and specifications from Lewis A. Grosz, 206 Redmond Bldg.

**La., Hollondale**—Hollondale Consolidated School District, F. T. Gilley, Pres., Board of Trustees, receives bids July 7 for 1-story school building; separate proposals on heating, plumbing and electric wiring, cost \$110,000, including furnishings and equipment; plans and specifications from J. M. Spahn, Archt., Millsaps Bldg., Jackson, Miss.

**La., Minden**—Webster Parish School Board receives bids July 5 for alterations and additions to Springhill and Sarepta high schools;

plans and specifications from Edw. F. Neild, Archt., City Bank Bldg., Shreveport.

**La., New Orleans**—Orleans Parish School Board considering floating \$20,000,000 bond issue for building construction.

**La., New Orleans**—Tulane Educational Fund has working drawings in progress by D'ball & Owen, Ltd., 412-15 Interstate Bank Bldg., for 3-story, fireproof dormitory for Newcomb College, on St. Charles Ave. at Audubon Park; reinforced concrete frame and floor slabs, pressed brick and limestone exterior, tile partitions, tile roof, terrazzo, wood and cement floors, pile and reinforced concrete foundation. See Want Section—Building Materials and Equipment. 6-16

**Md., Baltimore**—Gilman Country School, E. Boyd Morrow, headmaster, plans immediate construction of \$200,000 gymnasium; Taylor & Fisher, Archts., Union Trust Bldg.; Wm. G. Scarlett, 729 E. Pratt St., Chmn. Building Committee.

**Miss., Baldwyn**—School Board soon call \$40,000 bond election for new school.

**Miss., Corinth**—J. Platt Roberts, Archt., First Nat. Bank Bldg., Mobile, Ala., complete plans in 30 days for \$150,000, 2-story, brick and cst stone trim school building; composition roof, plastered interior, steel sash, wood and concrete floors, composition blackboards. 6-9

**Miss., Columbus**—Caledonia School District Board of Trustees call election June 30 on \$20,000 bonds for new school.

**Miss., Columbus**—Scott County Board of Education for new school for Ludlow consolidated line school.

**Miss., Ebenezer**—Holmes County Election Commissioners, Lexington, plan calling election on \$10,000 bonds for school building and teachers' home.

**Miss., Gulfport**—Harrison County Board of Education, C. J. Darby, Supt., considering sites for consolidated building for Pineville and Guarles schools.

**Miss., Jackson**—Mississippi College Board of Trustees adopted 10-year building and improvement program involving expenditure of \$1,565,000; includes additional endowment of \$875,000, administration building at \$225,000, 2 new dormitories \$200,000, biology and chemistry building equipment \$125,000, books for library \$40,000, additional athletic equipment \$50,000, new dining hall space \$50,000.

**Miss., McComb**—Mars Hill Consolidated School District voted \$15,000 bonds for new school building; address Board of Trustees.

**Miss., Picayune**—Board of Mayor and Aldermen call election July 5 on \$75,000 bonds, erect 2 school buildings.

**Miss., Vicksburg**—Warren County Board of Education planning \$70,000 bond issue for school improvements.

**Miss., Waynesboro**—Wayne County Board of Supervisors call election in Mulberry Consolidated School District on \$20,000 bonds for new building.

**Mo., Butterfield**—Town voted bond issue for consolidated high school; address Board of Education.

**Mo., Fulton**—Beta Theta Pi Fraternity of Westminster College will erect \$40,000 chapter house.

**Mo., Hurland**—Board of Education, B. H. Brown, Sec., has plans in progress by Ludwig Abt, Riegel Bldg., Moberly, for \$25,000, 1-story and basement, 81x110 ft. High School building; brick, concrete, cast stone, asphalt roof.

**Mo., Joplin**—Royal Heights community, C. W. Harger, member committee, planning to vote on \$35,000 bonds for high school.

**Mo., St. Louis**—St. Elizabeth Academy, Sisters of the Most Precious Blood, care Henry Driesoerner, Archt., 3543 Humphrey St., soon receive bids on 1-story, 60x141 ft., brick auditorium and gymnasium, 3401 Arsenal St.; seating capacity 1000, stage equipment, concrete foundation, copper shingle roof.

**Mo., St. Louis**—Washington University, Herbert S. Hadley, Chancellor, has plans by Jamieson & Spear, 1116 Arcade Bldg., soon take bids on \$250,000, 3-story and basement, 190x53 ft., red granite and Bedford stone Woman's Building; include gymnasium 64x92 ft., 12 assembly halls, lounging room and lunch room.

**Mo., Sullivan**—Board of Education has preliminary plans in progress by William Lampe, 824 Buder Bldg., St. Louis, for 2-story and basement, 10-classroom school building; \$22,000 bonds voted.

**N. C., Chapel Hill**—Kappa Alpha Fraternity, care Carr R. Purser, of University of North Carolina, plans to erect \$45,000 fra-

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## CONSTRUCTION DEPARTMENT

ternity house; architect not selected, probably open bids in Oct.

N. C., Charlotte—Board of School Commissioners, H. P. Harding, Supt., will relet contract for gymnasium at Central High School; Lockwood, Greene & Co., Engrs., Johnston Bldg.; recently awarded to Southwestern Construction Co., 210 W. Second St., but contract held void. 6-16

N. C., Newton—Catawba County Board of Education receives bids June 30 for 1-story Ball's Creek Consolidated School building; vapor heat, mastic and gum floors, brick foundation, concrete tile roof; Q. E. Herman, Archt., Hickory. See Want Section—Building Materials and Equipment. 6-16

N. C., Raleigh—North Carolina State College of Agriculture and Engineering, A. S. Brower, Comptroller, has \$580,000 permanent improvement fund authorized by last General Assembly, of which Executive Committee recommended following allocation: Completion of new Engineering Building, providing for Electrical Engineering and Physics, \$150,000; new Classroom Building, provide primarily for Liberal Arts, \$150,000; Greenhouses for enlargement of Dept. of Horticulture, \$15,000; President's Home, \$30,000.

Oklahoma, Bearden—Board of Education has plans in progress by M. T. Mardin, Muskogee, for remodeling and addition to school; \$25,000.

Oklahoma, Enid—School Board of School District No. 101, Garfield County, receives bids at office County Supt. until June 25, for frame building at N. E. cor. of Northeast quarter of Section 18, township 20; plans and specifications by State Board of Education, Oklahoma City.

Oklahoma, Oklahoma City—State Board of Affairs, G. C. Wollard, Chmn., Capitol Bldg., selected Jewel Hicks, Archt., 1600 Classen St., prepare plans for \$250,000 Physicians' Building. 4-28

S. C., Charleston—John P. Thomas, Chmn. Board of Visitors, receive bids June 24 at President's office, the Citadel, for connection of gas, water, sanitary sewerage and roof drainage lines of new faculty buildings at South Carolina Military College with present mains there.

Tenn., Benton—Polk County Board of Education will erect new buildings at Cookston Creek, Kings (colored), Hickey and Fairview, and additional rooms at Oak Grove, Zion, Blue Ridge, McFarland and Kimsley.

Tenn., Lookout Mountain—Hamilton County Board of Education, Mrs. H. R. Lacey, Chmn., Chattanooga, inspecting sites for proposed school building.

Tenn., Martin—Hall-Moody Junior College, reported, planning to erect 3 buildings.

Tenn., Memphis—Shelby County Board of Education call election June 30 on \$500,000 school bonds. 4-21

Tenn., Pikeville—Board of Education opened bids for erecting school building; Mark K. Wilson Co., Tenn. Electric Power Bldg., Chattanooga, low bidder at \$68,000, resurfacing; brick, stone trim, reinforced concrete frame and floor slabs, 2 stories and part basement, 190x85 ft. and auditorium 70x50 ft., brick and steel frame 1-story; J. G. Gauntt, Archt., Hamilton Nat. Bank Bldg., Chattanooga. 6-9

Tenn., Saubury—Town voted \$10,000 school bonds. Address Board of Education.

Tex., Alvin—Board of Trustees Alvin School District call \$69,000 bond election July 14 for High School building and repairs to present building.

Tex., Austin—University of Texas, J. W. Calhoun, Comptroller, receives bids June 25 for construction and installation of system of concrete tunnels and conduits and high-pressure steam distribution system; entire work divided into (1) General Contract; (2) Heating Contract.

Tex., Austin—City Council considering submitting \$2,000,000 bond issue this fall, include school improvements.

Tex., Burnet—Burnet Independent School District Board of Education, Silas Howell, Pres., receives bids June 29 for 2-story, brick school building; brick walls, reinforced concrete foundation, pine floors, wood shingle roof; H. F. Kuehne, Archt., 824 Littlefield Bldg., Austin. 6-9

Tex., Dallas—Evangelical Theological College, Dr. Lewis Sperry Chafer, Pres., broke ground for administration building at 3909 Swiss Ave., East Dallas, first unit of \$250,000 building program; include offices, chapel, classrooms, library and central heating plant, cost \$65,000; will also erect 2 dormitories, one to include public auditorium and other college refectory; Dr. William M. Anderson, pastor of First Presbyterian

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## Manufacturers Record

E. A. George, Archt., Shreveport, for 4-story, brick business building; 90x83 ft., metal sash and plate glass windows.

Miss., Clarksdale—Anderson & Smith have plans by Pfleil & Awsumb, Dermon Bldg., Memphis, Tenn., for new front, general remodeling and repairs to bank building, for store.

Miss., Gulfport—Louis Mitchell and associates have plans by Shourds & Bean, Archts., for 2-story, 50x100 ft., brick with stone trim commercial building, 13th and 29th Sts.

Oklahoma, Oklahoma City—V. V. Harris, Braniff Bldg., erect brick mercantile building at 716 N. Robinson Ave.

Tenn., Chattanooga—Rhodes-Jones Furniture Co., 608 Market St., has permit to remodel front of building, cost \$9600.

Tenn., Memphis—John Q. Eaton, Rand Bldg., erect \$11,000, 1-story, brick and steel commercial building at 390 S. Second St.; heat \$1000.

Tex., Alice—Phil Hobbs opened bids for erecting 1-story, wood joists and brick store building; H. A. Miller, low bidder at \$25,700; Hub Plumbing Co., Pharr, low on plumbing at \$481; Neuville Electric Co., Robstown, wiring at \$300; Adams & Adams, Archts., Builders Exchange Bldg., San Antonio. 3-31

Tex., Beeville—S. Lightburn, 131 Princess Pass, San Antonio, asking bids on two 1-story brick store buildings on Washington St.

Tex., Fort Worth—I. Brown, 809 Lilac St., erect \$25,000, brick store building at Daggett and 12th Aves.

Tex., Greenville—Mrs. F. J. Phillips has plans in progress by W. R. Ragsdale for 2-story brick building at Lee and Wesley Sts., to be occupied by J. C. Penney Store, G. G. Henry, Mgr.; balcony 35 ft. deep, tile and terra cotta.

Tex., Houston—John Finnigan Estate, First Natl. Bank Bldg., has completed plans by A. C. Finn, Bankers Mortgage Bldg., for 1-story, \$600,000 mercantile building, Main, McGowen and Bremond Sts.; reinforced concrete, steel, wood, tile and cast stone, 250x100x75 ft.

Tex., Houston—Charles Dolias erect \$10,000 store building, 2500 Center St. and 1103 Brashear St.

Tex., Houston—Dave Kaplan, 2133 Yale St., erect \$16,000, 2-story store and apartment building at Anita and Smith Sts.; tar and gravel roof; private plans.

Tex., Houston—Ben S. Parsons, 602 Colquitt St., has plans by Cameron D. Fairchild, Public Natl. Bank Bldg., for 120x100 ft., 1-story, hollow tile and stucco market building, Folk and Telephone Road.

Tex., Rio Hondo—Harvey P. Smith, Archt., Alaska Bldg., San Benito, care R. O. Dietert, Valley, representative, preparing plans for Johnson Store building.

Tex., Wichita Falls—Saul's Store, care Saul Lebenson, Seventh and Indiana Sts., make repairs, cost \$10,000.

Va., City Point (Sta. Hopewell)—J. A. Dove erect \$10,000 store building, Brown Ave. and Broadway; 4 rooms.

## Theaters

Ala., Birmingham—Birmingham Realty Co., 2118 First Ave., erect \$30,000 motion picture theater on Seventh Ave. South, to be operated by Brown Parkes and associates.

Md., Salisbury—Edward Canby May, Archt., Wilmington, Del., announced bids will soon be asked for \$120,000, stone and brick theater building; 60 ft. high, seat 1000 people, organ, ventilating system.

Mo., Columbia—J. Dozier Stone and H. H. Bird announced immediate construction of \$250,000 theater building.

Mo., Farmington—Farmington Entertainment Co., Dr. C. A. Tetley, Pres., has plans in progress by J. Hall Lynch & Son, 412 Dolph Bldg., St. Louis, for 1-story and basement, brick, 65x111 ft. theater building.

Tex., Sherman—William Jerrall Smith, Pres. of Sherman Little Theater, planning to erect building on lot donated by city.

Tex., Waco—Mrs. Foster Fort purchased lot at West and 18th Sts.; will erect community playhouse.

## Warehouses

Ark., Fayetteville—E. A. Gibson, 811 S. 26th St., Fort Smith, has plans for \$30,000, 1-story 25x76 ft. stone or brick warehouse and salesroom, College and E. Spring Sts.; composition roof, concrete floors, plate glass.

Ark., Fayetteville—E. A. Gibson, 811 S. 26th St., Fort Smith, has plans for \$30,000,

1-story, stone or brick, 25x76 ft. warehouse and salesroom, College and E. Spring Sts.; composition roof, concrete floors, store front.

Md., Baltimore—Atlantic Electrical Supply Co., Inc., 109-11 Commerce St., acquired 5-story warehouse at 113 Commerce St., will make alterations.

Tenn., Memphis—Fly & Hobson, Linden Station, have preliminary plans in progress by J. Frazier Smith and H. M. Burnham, Goodwyn Institute Bldg., for \$250,000, 2-story, brick and concrete slab, 225x250 ft. grocery warehouse, Florida and Dakota Sts.; built-up roof, concrete floors, stone trim, steel sash.

Tex., Dallas—Huey & Philip Hardware Co., George Trumbull, Pres., 1029 Elm St., start work soon as \$350,000, 3-story and basement,

reinforced concrete, fireproof, 100x200 ft. warehouse, Griffin, Collin, Magnolia and Caruth Sts.; Lang & Witchell, Archts., American Exchange Natl. Bank Bldg. 2-10

Tex., Houston—Damon Wells Co., Chronical Bldg., plans immediate construction of \$100,000, 250x150 ft. brick warehouse on Leeland Ave. at Rice and Bell; let contract to Lanelle Trussless Roof Co., Inc., Kirby St. for two 75-ft. spans.

Tex., San Antonio—T. W. Carraway Co., 225 Medical Arts Bldg., plans 2-story, 60x90 ft., tile and stucco wholesale warehouse, 120 Blue Star St.; reinforced concrete foundation.

Va., Danville—Col. W. T. Hughes, Loyal and Ridge St., will erect brick addition to Hughes warehouse; provide 15,000 sq. ft. floor space.

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

Fla., Bartow—Smith Electric Co. has electrical work contract for \$60,000 Masonic Temple; millwork, Bartow Lumber & Manufacturing Co., both Bartow; Barrett 20-year-roof, Eureka Roofing Co., Winter Haven; E. J. Moughton, Archt., First Nat. Bank Bldg., Sanford; Rutt-King Construction Co., Contr., Box 1115, Lakeland; address equipment proposals to H. W. Smith, W. M., Tuscan Lodge No. 6, F. & A. M., Bartow. 6-16

Mo., St. Louis—America M. T. A. erect \$15,000 lodge hall, 4386 Bates St.; brick, 1-story, 76x65 ft., composition roof, steam heat; W. E. Grote, Archt., 5245T Sutherland St.; W. F. Claudius & Son, Contrs., 2604 Cherokee St.

Tenn., Memphis—South Side R. R. Brotherhood Building Co., R. L. McNulty, Chmn. Bldg. Comm., let contract to J. A. Goodman, 148 Granville St., for \$50,000 lodge and store building, 186 E. McLemore Ave.; 2 stories and basement, built-up roof, concrete and wood floors, plate glass front for stores; 2 auditoriums; Anker F. Hanson, Archt., 683 Shrine Bldg. 12-23-26

### Bank and Office

D. C., Washington—Union Trust Co., 15th and H Sts. N. W., let contract to James Baird Co., New York Ave. near 17th St., for \$750,000 addition; 9 stories and cellar, 53x83 ft. on first floor, 53x53 ft. above, granite front, combination concrete and tile floor construction, hollow tile partitions, tile and marble floors, slag roof, bronze and ornate iron work, push button passenger elevator to third floor, modulation heating; A. B. Mullett & Co., 721 Union Tr. Bldg., and Marsh & Peter, 1304 F St. N. W., Archts. 6-16

Ky., Paducah—Mechanics Trust & Savings Bank, W. E. Bradshaw, Pres., remodel building, 418 Broadway, for quarters; white stone front, Corinthian columns, 4 stories, brick; G. Tandy Smith Archts.; Jack Cole, Contr., both Guthrie Bldg., Paducah; fixtures from Art Metal Construction Co., Jamestown, N. Y.; vault, Mosler Safe Co., Hamilton, O.

La., New Orleans—White Floor Co., 3123 Louisiana Ave. Pkwy., has contract to lay and surface pine floors in \$1,200,000 office building for New Orleans Public Service, Inc.; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg.; Geo. J. Glover Co., Inc., Contr., Whiteley Bldg. 3-3

Mo., Kansas City—St. Louis Structural Steel Co., Syndicate Trust Bldg., has contract for 130 tons fabricated struct. steel for 4 additional stories to Dwight Bldg. for Dwight Bldg. Co., Tenth and Baltimore Sts.; steel, concrete and brick, terra cotta trim; McKechnie & Trask, Archts., 224 Board of Trade Bldg. 5-5

Mo., St. Louis—J. H. Farish, Agts., 713 Chestnut St., let contract for \$30,000 elevator enclosure for Central National Bank to Hercules Contracting Co., 705 Chestnut; Chas. H. Deitering, Archt., 705 Olive St.; Sears & Pion, Engrs., 901 N. Sixth St. 6-16

Mo., St. Louis—Central States Life Insurance Co. started remodeling old St. Louis Club Bldg., 3663 Lindell Blvd., for offices; 4 stories and basement; cost \$200,000, steel and concrete interior; T. P. Barnett, Archt.; Arcade Bldg., Wm. H. & Nelson Cunliff Co., Contrs., 110 N. Seventh St. 5-26

N. C., Greensboro—Greensboro National Bank remodel building, Washington and Elm Sts.; cost \$25,000 to \$30,000; new fixtures; Angle-Blackford Co., Contr., Amer. Exchange Bank Bldg.

Okla., Oklahoma City—Southwestern Bell Telephone Co., 1010 Pine St., St. Louis, Mo., let foundation contract for \$1,000,000 administration and equipment building to Westlake Construction Co., St. Louis, at \$155,000;

reinforced concrete, fireproof, 100x200 ft. warehouse, Griffin, Collin, Magnolia and Caruth Sts.; Lang & Witchell, Archts., American Exchange Natl. Bank Bldg. 2-10

Tenn., Knoxville—Knoxville Knitting Mills Co., T. H. Johnson, Pres.-Mgr., erecting \$20,000 office building; Barber & McMurry, Archts., Tenn. General Bldg.

Tex., Amarillo—Schulze Bros. planing mill, 110 Idaho St., San Antonio, have mill-work contract for \$1,000,000 Medical Arts Bldg. for Fisk Investment Co.; Guy A. Cralander, Archt., Massie Bldg., Amarillo; Gilsonite Contracting Co., Contr., Athletic Club Bldg., Dallas. 3-3

### Churches

Ala., Phenix City—Methodist Episcopal Church, South, Rev. J. M. Truett, Pastor, erecting Sunday school addition; cost about \$25,000.

Fla., St. Augustine—Cathedral Congregation, Rev. P. J. McGill, Pastor, let contract to O. P. Woodcock, Duval Bldg., Jacksonville, for \$100,000 Cathedral Lyceum Bldg., St. George St.; auditorium seat about 900, assembly hall, gymnasium; brick and stucco, 2 stories; Gerald Barry, Archt., Chicago, Ill., and Jacksonville, Fla. 5-26

Ga., Attapulgus—Methodist Church let contract for \$16,000 brick building. Address The Pastor.

Ky., Owensboro—Settle Memorial Church start work within 2 weeks on installation of \$10,000 to \$12,000 pipe organ.

Md., Baltimore—Davis & Boublitz, 902 W. 36th St., have plumbing fixture contract for \$250,000 additions to St. Mark M. E. Church, Garrison Blvd. and Liberty Heights Ave.; Clyde N. & Nelson Friz, Archts., Lexington Bldg.; Tase-Norris Co., Inc., Contr., 908 Cathedral St. 5-19

Miss., Quitman—Methodist Church, Rev. J. A. Moore, Pastor, let contract to Currie & Corley, for \$10,000 to \$15,000 brick veneer building. 6-9

Mo., Kansas City—Christ E. L. Church erecting \$18,000 building, 53d and Park Sts.; John P. Nelson, Contr., 7341 Washington St.; brick veneer, 65x45 ft., asphalt shingle roof; furnishings, equipment, etc., \$1500; Henry Eckland & Co., Archts., 705 Finance Bldg.; hot air, fan system heating, E. K. Campbell Heating Co., 2441 Charlotte St.; electrical work, Roy Burkholder, 2709 E. 25th St.; plumbing, E. M. Buckley, 1706 Summit St. 5-19

Okla., Okmulgee—J. B. Klein Iron & Foundry Co., 1006 W. Second St., Oklahoma City, has struct. steel and misc. and ornate iron contract for \$75,000 First Baptist Church Sunday school; Ed J. Peters, Archt., Shawnee; W. R. Grimshaw Co., Contr., 401 Kennedy Bldg., Tulsa. 6-16

Okla., Perry—First Baptist Church, Rev. Chas. Henson, Pastor, let contract at \$18,500 to Stewart Construction Co., First Nat. Bank Bldg., Oklahoma City, for building; brick, 2 stories, 97.10x67.10 ft., rear 54.10 ft. front, asphalt shingle roof; furnishings, equipment, etc., \$2500; Butler Co., Archt.; basement complete. See Want Section—Building Materials and Equipment. 5-26

Tex., Corpus Christi—Park Avenue Baptist Church, Rev. B. F. Bickley, Pastor, remodel and erect addition to building; construct 110-ft. basement, extend present building 18 ft., add balcony; Hamon & Co., Archts., McDonald Bldg.; J. W. Birmingham, Contr., 624 Mesquite St.

Tex., Edinburg—First Baptist Church let contract for \$33,500 building to W. O. Ste-

phenson, Floresville; rein. concrete, brick, hollow tile and stucco, cast stone trim, 2 stories and basement, about 97x68 ft.; Robt. L. Vogler, Archt., Lipscomb Bldg. 5-5

Tex., Gainesville—W. A. Brooks, E. California St., has electrical work contract for \$20,000 Dixon Street Christian Church; Joe N. Boozer, Chmn. Bldg. Comm.; plumbing, M. Thomas, N. Denton St.; brick veneer, T-shape, 36x68 ft. and 36x50 ft., 1-story and basement, yellow pine floors, cedar shingle roof; Fonzie E. Robertson, Archt., Republic Bank Bldg., Dallas; W. L. Morris, Contr., McClain St.; painting not let. 6-16

Tex., Houston Heights, Houston—First Baptist Church, Ninth and Howard Sts., let contract at about \$30,000 to Chas. Dahl, Builders Exchange, for superstructure; basement completed; brick and hollow tile, 3 stories, 60x90 ft., composition roof, pine floors; C. N. Neilson, Archt., 1017½ Eagle Ave., both Houston. 6-16

### City and County

Ala., East Lake, Birmingham—City of Birmingham let contract at \$48,894 to J. F. Culpepper & Sons, 1719 Avenue I, for branch library, 77th St. and Sloss Ave.; heating, Culley Plumbing & Heating Co., \$2502; plumbing, T. J. Reece, 309 44th St., Fairfield, \$1083; electric wiring and fixtures, Harry Roberts, \$950; brick, 2 stories, Italian Renaissance type; Miller & Martin, Archts., Title Bldg., all Birmingham. 6-2

Ala., East Lake, Birmingham—City of Birmingham let contract at \$18,637 to Underwood & Bailey Construction Co. for fire station, 77th St. and Sloss Ave.; Miller & Martin, Archts., Title Bldg., both Birmingham. 6-2

Fla., Fort Lauderdale—City let contract at \$15,219 to Prescott & Coates Co., Inc., 206 N. E. Third St., for West Side fire station; rein. concrete foundation and frame, tile walls and roof, 1 story, terrazzo floors; Francis L. Abreu, Archt., Bryan Arcade. 5-26

Fla., Pensacola—City, J. H. Bayliss, Mayor, let contract to Herrington Brothers Construction Co. for fire station, 11th Ave. and Gregory St.; W. A. Alfred, Archt. 6-16

Fla., St. Petersburg—City let contract to McBath Construction Co. for \$12,000 building for Shuffleboard Club, Mirror Lake Park; block, 22x60 ft.; foundation completed.

Mo., Monticello—Lewis County Board of Commrs. let contract at \$41,440 to W. R. Oder & Son, Canton, for poor house.

N. C., Hendersonville—City Commission tentatively let contract to Palmer-Spivey Construction Co., 404 S. Tryon St., Charlotte, for city hall; cost \$175,000, brick and concrete, 4 stories, 80x90 ft., concrete floors and foundation; Erle G. Stillwell, Archt., Fourth Ave. W., Hendersonville; R. G. Lose, Engr., 721 Forsyth Ave., Atlanta, Ga. 5-19

Tex., Amarillo—City, Jeff D. Bartlett, City Mgr., let contract at \$21,000 to Ledford & Tucker, Oliver-Eakle Bldg., for city hall unit No. 3; fireproof, brick and concrete, 2 stories and full basement, 28x60 ft., Johns-Manville roof, concrete foundation; Lester Jones, Archt., 1404 Washington St.; H. B. Jones, Engr., 1608 Madison St. 5-12

Tex., Beaumont—Beaumont Building Material Co., Pine and Magazine Sts., has brick contract at about \$23,000 for \$85,000 central fire station; Livesay & Wiedemann, Archts., San Jacinto Life Bldg.; McDaniel Bros., Contr., Kyle Bldg.

Tex., Harrisburg—City let contract to Irving J. Shapley, 1108 Fairview St., for \$20,000 bungalow type fire station; tile and stucco; 1-story; L. A. Glover, Archt., Blinz Bldg., both Houston. 6-9

Tex., Sinton—San Patricio County Board of Commrs. let contract at \$100,500 to H. N. Jones Construction Co., 804 Avenue A, for courthouse; jail cells, \$15,274, Southern Steel Co., 4500 block S. Presa St., both San Antonio; rein. concrete, brick, cut stone, stucco and steel, 2 stories and basement, with 1-story jail on roof of main building; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 6-9

W. Va., Huntington—Park Board, Col. George S. Wallace, Pres., let contract to Rust Engineering Co., 311 Ross St., Pittsburgh, Pa., for first unit of municipal stadium, Fairfax Park; to be built by Park Bd., School Bd. and City of Huntington; seat 5400; cost \$90,000; Manor & Handloser, Archts., 1139 Fourth Ave., Huntington.

### Dwellings

Ala., Birmingham—E. D. Cain, 232 N. 40th St., erect \$10,000 residence, Bush Hills; day labor; brick veneer, 2 stories, 39x40 ft., composition roof, furnace heat; J. E. Salle, Archt., 2109 N. Fifth Ave.

Ala., Eufaula—W. H. Merrill let contract at \$14,800 to Cumble & Dean for brick resi-

## CONSTRUCTION DEPARTMENT

dence; 2 stories, oak floors, concrete foundation, composition roof; Frank Lockwood, Archt., 110 Adams St., Montgomery; hot water heating, T. A. Lewis, Dothan; electrical work and plumbing in gen. contract. See Want Section—Building Materials and Equipment. 6-16

Ala., Luverne—Ira B. Thompson erect \$12,000 Colonial residence; brick and hollow tile, 2 stories, 26x52 ft., brick foundation, clay shingle roof; Frank Lockwood, Archt., 19 Adams Ave.; electrical work and plumbing, Marion Nosworthy; probably electrical heating plant. See Want Section—Building Materials and Equipment. 6-16

Ala., Montgomery—C. Y. Bogacki, N. McDonough St., erect 4 frame dwellings, Arthur St.; 1-story; total cost \$10,000; owner builds.

Ala., Montgmoery—G. W. Hanna, erect frame residence; 1-story, tile bath, hardwood floors; owner builds.

Ark., Little Rock—M. Ehrenberg, Boyle Bldg., started work on 2-story residence, 224 Crystal Ave.; 36x38 ft., hardwood floors, concrete foundation, tile roof; Buford Bracy, Archt.; Bracy Real Estate & Building Co., Contr., both Rector Bldg.

Ark., Little Rock—R. N. Dillingham, 214 Louis St., erecting \$11,000 duplex, Louise and Prospects Sts.; brick veneer, 2 stories, 32x40 ft., oak floors, composition roof; W. M. Van Valkenburgh, Archt., 212 W. Second St.; Branton & Williamson, Contrs.; electrical work, I. K. Electric Co., North Little Rock; plumbing, Ted Taylor, 2617 Prospect. See Want Section—Building Materials and Equipment. 6-16

Ark., Little Rock—Judge Abner McGehee erect \$15,000 brick residence, Walnut and I Sts.; 2 stories; J. E. Gehrki, Contr., 2418 W. 17th St.

Ark., Little Rock—Mrs. L. T. Rose, Abeles Apt., let contract for \$30,000 to \$35,000 residence, 3417 Palm St., to W. W. Brown, 4001 W. 13th St., brick, stucco and stone trim, 2 stories, 50x80 ft., tile roof; Max Mayer, Archt., Donaghey Bldg.

Ark., Pine Bluff—Union Realty Co., erect 19 bungalows, Memorial Addition, W. 9th Ave. and Plum St.; frame, 1 story, yellow pine floors, red cedar roofs; McGhee Realty Co., Archt.-Contr., both 2400 W. 2nd Ave. 6-16

Fla., Jacksonville—C. O. McDaniels, Oak St., erect \$11,500 duplex, 2716-18 Herschel St.; brick veneer, 2 stories; E. E. Lasserre, Contr., 1811 Myra St.

Fla., Miami—W. E. Griffiths started work on \$12,000 residence, Opa-Looka; 7 rooms.

Fla., Ocala—Wm. Needham has vapor heating and plumbing contracts for \$25,000 residence for W. J. Edwards; millwork, R. H. Todd Lumber Co., all Ocala; marble and tile, Zinni Tile Co., Ocala, and 4112 S. Poinsettia St., West Palm Beach; electrical work, Carey & Taylor, Lake Wales; Geo. MacKay, Archt.; E. F. Gibbons Construction Co., Contr., Professional Bldg., both Ocala. 5-5

Fla., Pensacola—J. M. Herrington, erecting \$15,000 residence, 18th Ave. and Brainard St. St.

Fla., Pensacola—W. L. Moyer, 30 W. Government St., erect residence, Moreno and Baylen St.; cost about \$10,000; E. E. Lane, Contr.

Fla., Pensacola—O. L. Olensky, erecting \$15,000 residence, Blount St. near Baylen St.; Herrington Brothers Construction Co., Contr.

Fla., Wauchula—A. F. Cosey started work on \$11,500 residence; 6 rooms, face and common brick, magnesite floors, tile roof, built-in fixtures; H. G. Little, Archt.; Geo. K. Worby, Contr.

Ga., Atlanta—Mrs. Mary T. Clurry, 856 Bonaventure Ave., erect \$10,000 residence, 785 Virginia Ave., N. E.; 1 story, brick, composition roof, steam heat; F. H. Turnipseed, Contr., 345 W. Tenth St.

Ga., Atlanta—E. Diamond, 122 Magnolia St., let contract to C. C. Cooper, 149 Currier St. N. E., for 5 duplexes, Ashby Grove Ave.; frame, composition roof.

Ga., Atlanta—Mr. Martin let contract to Flagler Co., Red Rock Bldg., for brick residence, Brookwood Hills; hardwood floors; Cyril Smith, Archt., Bona Allen Bldg.

Ga., Columbus—Cooper Lumber Co., 12th Ave., erect brick veneer dwelling; 1 story, hardwood floors, tile baths, vapor heat; F. Roy Duncan, Archt., Exchange Bldg.; owner builds.

Ga., Macon—Jennings Adams started work on \$12,000 residence, Vineville Ave. and Beverly Place; stucco, 2 stories; Dunwody & Olliphant, Archts., 460 Broadway; W. W. Walhall, Contr.

Ga., Macon—Murphy, Taylor & Ellis, 470 Cheyenne St., erect brick veneer cottage, English Ave., Stanislaus; 6 rooms; W. W. Walhall, Contr., started work.

## Manufacturers Record

Ga., Valdosta—I. H. Tillman, Cashr., Citizens & Southern Bank, started work on \$12,000 residence.

Ga., Valdosta—J. C. Jackson started work on dwelling, Troup St., and one on Charlton St.; cost about \$7000 each.

La., New Orleans—Peter F. Wilson, 1708 Broadway, erect \$10,500 single cottage, Fontainebleau Drive and Pine Sts.; Edwin L. Markel, Contr., 3838 Louisiana Pkwy.

La., New Orleans—N. Bunol, 222 S. Salcedo St., let contract at \$11,800 to A. C. Babin's Sons, Marine Bank Bldg., for residence, Belfast St. near Fern St.; A. S. Montz, Archt., 716 Poydras St. 5-19

La., New Orleans—Harang & LeBlanc, Inc., Contrs., 3064 St. Philip St., erect 2-story frame and stucco duplex, Bienville St.; tile roof and baths, finished wood floors, metal lath, electric installations.

La., New Orleans—Saml. Byrne erect raised residence, Iberville St., near Olympia St.; cost about \$10,000; J. J. Lagarde, Archt.-Contr., Canal-Commercial Bldg.

La., New Orleans—Edw. Thronak erect \$10,000 raised residence, Audubon Blvd., near Nelson St.; tile roof; J. J. Lagarde, Archt.-Contr., Canal-Commercial Bldg.

La., New Orleans—W. W. White, Contr., 3545 Louisiana Ave. Pkwy., erect 2 duplexes, Louisiana Ave. and Galvez St.; cost \$12,000.

La., New Orleans—Guiseppe Amoroso erect 2 duplexes, Derbigny and Claiborne Sts.; total cost \$16,000; Sigmund Lieberman, Contr., 3135 Robert St.

La., New Orleans—Albert L. Lee, 3833 Banks St., erect double dwelling, Pine and Calipissa Sts.; Percy Marchand, Contr., 2922 Audubon St.

La., New Orleans—Ed Lobe erect \$12,000 duplex, 5215 Prytania St.; 33x59 ft., tile roof; Edw. L. Markel, Archt.-Contr., 3838 Louisiana Ave. Pkwy.

La., New Orleans—Edwin L. Markel, Contractor, 3838 Louisiana Ave. Pkwy., erect duplex, Dumaine St. and Harding Drive; tile roof and bath, hardwood floors, metal lath, copper screens; sub-bids in.

La., New Orleans—Arthur C. Staats erect \$10,000 two-story residence, Iberville and Lopez Sts.; Sam P. Simonte, Contr., 2621 Lepage St.

La., New Orleans—W. E. Walls, 4803 St. Charles Ave., erect \$13,000 single residence, Bordeaux and Carondelet Sts.; 34x60 ft., slate roof; Mason & Spirl, Archts.; Chris Larsen, Contr., 924 Canal Bank Bldg.

La., New Orleans—Dr. Thos. Capo, erect \$10,000 single residence, Canal Blvd. near Taylor Ave.; tile and composition roof, 2 stories, 34x40 ft.; R. H. Ketteringham, Contr., 1128 Jeanne St.

La., New Orleans—Dr. P. F. Wilson, 1708 Broadway, erect \$10,000 single residence, 87 Fontainebleau Drive; 2 stories, 33x62 ft., tile roof; Ed. L. Markel, Archt.-Contr., 3838 Louisiana Ave. Pkwy.

La., New Orleans—Richard I. Hoskins erect \$10,500 residence, Fairway Drive; B. A. Russ, 4 Paladin Place, Contr.

Md., Baltimore—Young & McEwen, erect \$10,000 frame residence and garage, Cedarcroft Rd. near Bellona Ave.; 2 stories, 33x25 ft. and 20x18 ft., slate roofs, hot water heat; H. A. Brannock, Archt., 904 Lyman Ave.; owner builds.

Md., Baltimore—Mrs. R. L. Marshall, 1718 Rutland Ave., erect \$15,000 brick residence, Penniman Rd.; 2 stories, 74x44 ft., hot water heat; L. H. Fowler, Archt., 347 N. Charles St.; Willard E. Harn Co., Inc., Contr., 2314 Oak St.

Md., Baltimore—R. Milton Norris, 404 St. Paul St., erect \$10,000 brick residence and garage, St. Albans Way near Upton Rd.; 2 stories, 36x20 ft. and 20x20 ft., slate roofs, vapor heat; total cost \$10,000; Fred Thomas, Archt., 726 E. 33d St.; J. S. Downing, Contr., 2600 Greenmount Ave.

Md., Baltimore—Northern Realty Co., erect 6 brick dwellings, N. W. cor. Homestead and Van Buren Sts.; 2 stories, steam heat; total cost \$15,000; F. E. Beall, Archt., 306 St. Paul St.; owner builds.

Md., Baltimore—Lawrence Lubbers, 12 W. Madison St., has roofing contract for \$24,500 residence for Cary R. Wilson, Preston Apts.; millwork, Jos. Thomas & Son, Leadenhall and Henrietta St.; plumbing, John T. Spellman, 3026 Greenmount Ave.; stone work also let; Fredk. Thomas, Archt., 726 E. 33d St.; Major Engineering Co., Contr., Preston St. and Guilford Ave.; hot water heating and electrical work not let.

## Manufacturers Record

Md., Baltimore—Wm. C. Walker, Baltimore Commercial Bank, erect \$10,000 block residence and garage, Beverly Rd. and Weaver Ave.; 2 stories, 27x37 ft. and 19x19 ft., slate roof, hot water heat; W. A. Weise, Archt., 4213 Euclid Ave., R. H. Simmers, Contr., 3828 Arabia Ave.

Md., Baltimore—Theo. White, 113 S. Wolfe St., let contract for \$12,000 residence, Normandy and Belvedere Ave., to Peyton B. Strobel, 206 E. Lexington St.; 2 stories, 64x45 ft. and 20x20 ft., brick, slate roof, hot water heat; H. A. Stilwell, Archt., Ruxton.

Miss., Biloxi—Meyer Eiseman has contracts for 3 dwellings, Bay Terrace.

Miss., Meridian—Meridian Star let contract to L. W. Hancock for model dwelling.

Mo., Clayton, St. Louis—R. K. Barday, 8011 Davis Place, erect \$12,500 residence, Bemiston St.; brick, 40x100 ft.; L. Ewald, Archt., Rialto Bldg., K. G. Janssch, Contr., 5868 Bartmer St.

Mo., Clayton, St. Louis—W. F. Shannon, Arcade Bldg., erect \$12,000 brick residence; 37x26 ft.; H. Winkeler, Archt.; Century Realty & Construction Co., Contr., 7217 Manchester St.

Mo., St. Louis—R. R. Rosemond Co., 6115 Gravois St., erect 3 brick dwellings, 5444-46-48-50 Finkman St.; 2 stories, 23x39 ft., tile roofs, hot water heat; total cost \$15,000; plans and construction by owner.

Mo., St. Louis—E. Contarini, 762 Walton St., erect 6 brick dwellings, 5711-15-19-23-25-29 Kansas St.; 1 story, 26x42 ft., composition roofs, hot air heat; total cost \$18,000; plans and construction by owner.

Mo., St. Louis—North St. Louis Boosters, 4355 Warne St., erect brick dwelling, 4651 Moraine St.; cost about \$10,000, 1 story, 27x47 ft., asphalt and tile roof, hot water heat; H. Kissels Sons, Contrs., 4107 W. Florissant St.

Mo., St. Louis—H. M. Straub, 110 N. Eighth St., erect 5 brick dwellings, 4634-38-42-46-50 Korte St.; 1 story, 27x39 ft., asphalt shingle roofs, hot air heat; total cost \$20,000; I. T. Schoener, Archt., 4707 Farlan St.; M. J. Lawier, Contr., 5632 Terry St.

Mo., St. Louis—T. J. Hopfinger, erecting English type residence, La Hacienda, Price and LaDue Rds.; Edw. Lantz, Archt., Wright Bldg.

Mo., St. Louis—W. Harding, 5349 Janet St., erect 3 brick dwellings, 4970-72-76 Plover St.; 1 story, 26x34 ft., composition roofs, hot air heat; total cost about \$10,000; owner builds.

Mo., St. Louis—W. Kasselbaum, 3219 Greer St., erect brick residence and garage, 915 Buena Vista St.; 2 stories, 35x34 ft. and 19x22 ft., tile roofs, hot water heat; cost about \$10,000; Nolte & Nauman, Archts., Fullerton Bldg.; J. C. Mueller & Son, Contr., 3528 Hebert St.

Okl., Oklahoma City—D. Replogle, 24 W. Fifth St., let foundation contract for \$75,000 brick residence to Campbell & Price, 605½ W. Main St.; probably have plans for superstructure ready for bids in few days; Leonard Bailey, Archt., Colcord Bldg. 5-5

S. C., Greenville—Liberty Life Insurance Co., Main St., let contract to Paul J. Oeland, Stone Ave., for remodeling 2-story brick building, Main and E. Court Sts.; cost \$10,000. 6-00

Tenn., Knoxville—H. A. Mosby, 117½ S. Jay St., let contract to Schubert Home Building Co., 1400 Washington Ave., for \$20,000 residence; Havenwood addition; 2 stories, 10 rooms, tile bath, hardwood floors, vapor heat; work started. 6-9

Tenn., Knoxville—R. L. Sterchi, Middlebrook Place, let contract to Schubert Home Building Co., 1400 Washington Ave., for \$35,000 Italian type residence, Kingston Pike; hardwood floors, tile roof, vapor heat; also erect 2 English cottage type dwellings, Kingston Pike; 5 rooms.

Tenn., Memphis—W. G. Huckabee, Breedlove and Valentine Sts., erect wide siding residence; 1 story, 5 rooms, pine floors, composition roof, day labor.

Tenn., Memphis—South, Whitten & Haley, First Natl. Bank Bldg., have permit for \$16,000 dwelling, 221 Kimbrough Place; 7 rooms, brick veneer.

Tenn., Signal Mountain—Williams Point Development Co., Volunteer Bldg., erect 25 to 30 dwellings, N. Palisades Drive; total cost \$250,000; James Verhey, Archt., 343 Volunteer Bldg.; no general contract. 6-9

Tex., Beeville—M. B. Hancock, erect 5 room residence; contract let.

Tex., Galveston—Robinson Bros., 804 G St., have plumbing and Honeywell hot water heating contract for \$15,000 residence for J. F. Reed, City Nat. Bank; electrical work, McLellan Electric Co., 2120 E St.; Andrew Fraser, 8818 Main St.; owner builds.

Arch., American Natl. Insurance Bldg.; J. W. Woodruff, Contr., 3801 Q 1/2 St. 6-9

Tex., Houston—Miss Ima Hogg, W. C. Hogg and Mike Hogg, 4410 Rossmoyne Bldg., let contract for \$150,000 Colonial residence, River Oaks, to Cris J. Miller, 3904 Austin St.; B. P. Briscoe and John F. Staub, Archts., Second Nat. Bank Bldg. 5-19

Tex., Houston—R. W. Hunt, Cotton Exchange Bldg., started work on residence, 2126 Dunstan Rd., Southampton; English type, 2 stories, brick veneer; T. W. Emenhiser, Contr., 1523 Blodgett St.

Tex., Houston—Chas. Welch, erect \$10,000 residence, 2105 Wichita St., Riverside; 2 stories, 9 rooms, brick veneer, tile roof; J. C. Evans, Contr.

Tex., Houston—E. N. Brown let contract to Scholes & Scholes for duplex, Francis St. and Sam Houston Blvd.

Tex., Houston—J. E. Winfree, State Natl. Bank Bldg., started work on \$35,000 brick veneer Colonial residence, Telephone Rd. near Houston; 2 stories, 12 rooms, garage and servants' quarters; Carl Curts, Contr., Center and Wicham Sts.

Tex., Houston—C. J. Wright, 707 Pease St., let contract for \$14,000 residence, 5502 Bonnie Brae St., Castle Court, to C. C. Rhodes, 1903 Commonwealth St., brick veneer, 10 rooms, 2 stories, 4 baths.

Tex., Palestine—Sam Rollins, erect English type residence, Kolstad St.; 6 rooms, brick veneer; Fred Jones, Contr.

Tex., San Antonio—W. C. Johnson, 1900 W. Hunstock St., erect \$10,000 residence, 116 Bushnell St.; 7 rooms, 2 stories, tile and stucco; C. C. Dishman, Contr., 305 Mary St.

Tex., San Antonio—T. H. Walker, Jr., started work on brick veneer residence, Greenwood Village, Monte Vista.

Va., Martinsville—Methodist Church, Rev. H. W. Dunkley, Pastor, started work on \$10,000 parsonage; 8 rooms; Fuqua Construction Co., Contr., Krise Bldg., Lynchburg.

Va., Norfolk—J. C. Addington, 1039 Brandon Ave., erecting \$10,000 residence, Boiling Ave.

Va., Roanoke—Burton F. Deaver started work on residence, Lee Highway near Roanoke.

### Government and State

Tex., Austin—State Board of Control, Dr. H. H. Harrington, Chmn., let contract for boiler house and boiler at State Confederate Woman's Home to A. A. Mundt, 812 W. 12th St.; remodeling heating plant to Donnelly & White, 204 W. Third St.; total cost \$11,000; W. E. Ketchum, Archt., Pope Bldg. 6-9

### Hospitals, Sanitariums, Etc.

Ala., Mobile—Mobile Tuberculosis Assn. let contract on cost plus basis to R. E. Sundberg Construction Co., 150 Water St., for negro ward at tuberculosis sanatorium, gift of Sol Kahn; 1 story, 33x120 ft., composition roof, wood floors, hot-air heat; C. L. Hutchisson, Archt., Staples Powell Bldg.

D. C., Washington—Constructing Quartermaster Office receives bids July 15 for east and west wings and connecting corridors to Administration Bldg., Walter Reed General Hospital; information from Constr. Quartermaster, Knights of Columbus Bldg., Walter Reed General Hospital.

Miss., Tougaloo—Tougaloo College let contract at \$10,342 to Lundberg & Hayes, Canton, for hospital; 1 story, brick and frame, 50x70 ft., concrete foundation, composition shingle roof; Emmett J. Hull, Archt., Merchants Bank Bldg.; vacuum steam heating, Paine Heating Co., 127 S. State St.; electrical work, Parks & Williams; plumbing, Davis Plumbing Co., 115 S. State St., all Jackson.

Tex., Decatur—Dr. T. G. Rogers erect \$25,000 hospital; Harvey Already, Contr., Ringling, Okla.

Tex., Fort Worth—Board of Trustees of Methodist Hospital receive bids June 29 for completion of 5 floors of hospital; separate bids on plumbing and heating; plans from W. G. Clarkson & Co., Archts., First Natl. Bank Bldg.

Tex., San Antonio—Santa Rose Infirmary, 745 W. Houston St., let contract for \$500,000 Gothic type hospital addition to Moeller & Wellbacher, 1211 Willow St.; brick, cast stone, rein. concrete frame and floor slabs, fireproof, 5 stories and basement, 160x50 ft., tile corridors and baths, metal lath and plaster partitions, gravel roof, washed air cooling system; 70 patients' rooms; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg. 6-9

### Hotels and Apartments

Ark., Cherry Valley—Mrs. A. M. Gordon let contract for 10-room hotel.

D. C., Washington—Gelman & Hayes, 4820 Seventh St. N.W., erecting \$175,000, 4-story, brick and tile, stone trim apartment building at 10th and D Streets, N. E.; 92x101 ft., concrete foundation, slag roof, hardwood floors; American Smokeless Boiler and plumbing to M. Lurie & Co., 636 Princeton Pl.; electric work, Jake Stearman, 139 Varnum St., N. W.; concrete and fireproofing, Fletcher Fireproofing Co., 48 N Street, S. W.; tile and marble, Columbia Mosaic Tile Co., 114 C Street, N. W.; millwork and structural steel, Barber & Ross, Inc., 11th and G Sts., N. W.; George T. Santmyers, Archt., 917 15th St., N. W.; Widmayer Steel Corp., Engrs., 1010 Vermont Ave., N. W. See Want Section—Building Materials and Equipment. 6-16

D. C., Washington—L. E. F. Prince, 30th and Perry St. N. E., extensively remodeling Wilson apartment house at 2900 14th St.; include 5 stores on main floor on 14th St. side and 1 on Harvard St.; 3 upper floors provide apartments of 4 rooms and bath; \$50,000.

Fla., Jacksonville—L. Moscovitz let contract to A. Wiselman for \$20,000 2-apartment building, 2061-63 College St.

La., Baton Rouge—Baton Rouge Electrical & Machine Works, Inc., 523 Third St., received contract at \$12,500 for fans and fixtures for \$1,000,000 Glassell hotel, for which Glassell-Wilson Co., Inc., Sinclair Bldg., Shreveport, has general contract. 9-2

La., New Orleans—Morris Simon let contract to R. H. Ketteringham, 1128 Jena St., for \$20,000, 36x87-ft., 2-story, 4-apartment house at 1735-7 Baronne St.; slate asbestos roof.

Miss., Philadelphia—Howell Construction Co., B. L. Howell, Owners-Builders, let contract to Alex Kerr, at \$14,000, for heating and plumbing, and to Parkes-Williams, Jackson, at \$1500, for wiring 2-story and basement, brick hotel; millwork to Acme Building and Supply Co., Meridian, at \$3000; roof and sheet metal to John Kirkland, R. C. Springer, Archt., Rosenbaum Bldg., Meridian. 5-5

Mo., Kansas City—Heflin Building Co., Harry Heflin, started work on two apartment buildings at 4728-28 Harrison St., include 72 rooms and suites.

Mo., Poplar Bluff—John W. Berryman, owner of Gibbons Hotel, started rebuilding.

Mo., St. Louis—Esenay Realty Co., 1124 Chemical Bldg., let contract to Frankel Construction Co., Clifton Terrace, Ill., for \$10,000, 2-story, brick, 36x47 ft. tenement, 3610 O'Meara St.; composition roof, warm-air heat; L. F. Abrams, Archt., 1124 Chemical Bldg.

Mo., St. Louis—N. Klinedinst, 4212 Athalone St., erect \$10,000, 2-story, brick, 32x56 ft. tenement, 4623 Carrie St.; composition shingle roof, hot-water heat; A. Meyer, Archt., Central Natl. Bank Bldg.; owner builds.

Mo., St. Louis—P. P. Mason, 220 Wainwright Bldg., let contract to W. J. McCully, 802 Chestnut St., for two 2-story, brick, 27x37 ft. tenements, 6925-27 Vermont St., \$12,000; slate-surfaced shingle roofs, hot-air heat; E. F. Kraft, Archt., 220 Wainwright Bldg.

Mo., St. Louis—Ada Investment Co., 904 Chestnut St., let contract to Jacob Rubin, 904 Chestnut St., for \$100,000, 3-story and basement, 42x165-ft., 42-unit apartment house at W. Pine and Newstead Aves.; stone foundation, oak floors, electric refrigeration, incinerator, tile baths, vapor heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—Argyle Realty Co., 1237 N. 13th St., let contract to N. Alper, 1237 N. 13th St., for three 2-story, brick, 34x45-ft. tenements, 5846-56 Terry St.; \$27,000; also two 2-story, 39x53-ft. tenements, 5839-44 Terry St.; \$20,000; tar and gravel roofs, hot-air heat; H. W. Guth, Archt., 813 Chestnut St.

Mo., St. Louis—W. and C. Brinkop, 3621 S. Grand St., erect four 2-story, brick, 25x47-ft. tenements, 4130-36 Minnesota St.; \$29,000; tar and gravel roofs, furnace heat; K. W. Moses, Archt., 3643 Bowen St.; owners build.

Mo., St. Louis—V. A. Chinberg, 808 Chestnut St., erect \$20,000, 45x60-ft., 2-story and basement, brick, 4-unit apartment house, Pershing Ave.; also \$90,000, 24-unit building at Cabanne St.; concrete foundation, slate roof, hot water heat, oak floors, tile baths; O. J. Popp, Archt., Arcade Bldg.; owner builds.

Mo., St. Louis—R. R. Rosemond Co., 6115

Gravier St., erect five 2-story, brick, 25x46-ft. tenements, 4945-58 Mardel St.; \$35,000; tile roofs, hot water heat; owner is Archt. Builder.

Mo., St. Louis—H. W. Simon, 4569 Athione St., let contract to H. C. Simon, 4446 Florida Place, for \$12,000, 2-story, brick, 19x51 ft. tenement, 4123-25 San Francisco St.; asphalt shingle roof, hot-air heat.

Tenn., Cumberland Gap—Whitaker Garage Co., erecting hotel facing Dixie Highway.

Tenn., Jackson—B. E. Buffaloe & Co., Contrs., P. O. Box 2358, Desoto Station, Memphis, Tenn., let following sub-contracts on \$400,000, 8-story Southern Hotel: Millwork, City Lumber Co.; plumbing, Curtiss Plumbing Co.; Hermitage cement, Yandell & Conger, all Jackson; roofing, Bartholomew Roofing Co., 164 S. Second St.; glass and glazing, Binswanger & Co., 635 Union St.; marble, tile and terrazzo, Central Mosaic Marble and Tile Co., 248 N. Front St.; sheet metal, Jake Dermon, 122 Poplar St.; electrical work, Fowler Electric Co., 118 Monroe St.; metal doors, Miller-Cochran Co., Dermon Bldg., all Memphis; brick, W. G. Bush & Co., 174 Third Ave. N.; testing, Froehling & Robertson; sand and gravel, T. L. Herbert & Son, 174 Third Ave. N., all Nashville; terra cotta, Atlanta Terra Cotta Co., Citizens and Southern Bank Bldg.; scaffolding machines, Patent Scaffolding Co., 182 Haynes St., both Atlanta; ornamental iron and steel, Lasar Manufacturing Co., 1313 N. 16th St., St. Louis, Mo.; steel sash, Detroit Steel Products Co., 2250 E. Grand Blvd., Detroit, Mich.; painting and papering, Walden Paint Co., Florence, Ala.; hollow metal window frames, Willis Manufacturing Co., Galesburg, Ill. 4-14

Tenn., Knoxville—Colonial Hotel, C. B. Atkins, 808 S. Gay St., let contract to Roy Hicks, for converting second story of building, Gay and Main Sts., into 26 hotel rooms; \$12,000; A. E. Gredig, Archt., Mercantile Bldg.

Tenn., Knoxville—G. S. Dougherty, Pres. of Luten Bridge Co., Mercantile Bldg., and C. H. Bacon, Loudon, let contract to Weaver & McGill, General Bldg., for \$38,000, brick, four 6-room apartment building on Kingston Pike.

Tenn., Memphis—W. M. Bell, Highland Ave., let contract to McDonald Construction Co., 1065 Lamar Ave., for \$55,000, 2-story and basement, 48x129 ft., brick veneer apartment building, Somerville St. and Peabody Ave.; copper clad roof, oak floors, tile baths, stone trim, steam heat; J. Frazer Smith and H. M. Burnham, Archts., Goodwyn Institute Bldg.

Tenn., Memphis—Donlyn & Berry, 201 Fidelity Bank Bldg., let contract to B. E. Berry, 201 Fidelity Bank Bldg., for \$15,000, 2-story and basement, brick veneer, 41x80-ft. apartment building, 649 University Place; composition shingle roof, oak floors, tile baths, hot water heat; W. C. Lester, Archt., 824 Dermon Bldg.

Tenn., Memphis—J. J. Mackey, 1199 N. Parkway, erect \$20,000, 1-story and basement, 36x54-ft. apartment building, 78 N. Bellevue St.; composition roof, oak floors, tile baths; private plans; owner builds with day labor.

Tenn., Memphis—Dave Dermon Realty Co., Berman Bldg., started work this week on two 16-apartment buildings at N. E. cor. N. Bellevue Blvd. and Overton Park Ave.; also erecting two 16-apartment and one 8-apartment at 1341 Overton Park Ave., S. W. cor. Overton Park Ave. and N. Watkins St., and at 1377 Overton Park.

Tex., Houston—M. B. Alford let contract to C. C. Rhodes, 1903 Commonwealth St., for \$12,000, 2-story, brick veneer apartment building at 1659 Kipling St.; 4 apartments of 5 rooms and bath each.

Tex., Houston—H. W. Elrod let contract to O. P. Steeger, West Bldg., for 2 2-story, brick veneer apartment buildings at 1026-30 Heights Blvd.; \$28,000; each contain 4 apartments of 5 rooms and bath each.

Tex., Houston—O. C. Reiner let contract to A. E. Olson & Bro., for \$18,250, 2-story, brick veneer, 4-apartment building at 4718 Bell Ave., East End.

Tex., Houston—J. L. Tibbott, First Natl. Bank Bldg., let contract to F. O. Megginson, 1225 Harvard St., for \$32,000, 2-story, brick veneer apartment building at 3815-17 Lamar Ave.; 32 rooms and 8 baths, asbestos shingle roof.

Tex., Sweetwater—Rufus Wright, owner of Hotel Wright Coffee Shop, expending \$15,000 for terrazzo floor, fixtures and equipment, etc.

Tex., Sweetwater—H. B. Allen and Associates let contract to J. E. Morgan, 319 Texas St., El Paso, at \$156,388, for 6-story and roof garden, 100x140 ft. hotel building;

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## CONSTRUCTION DEPARTMENT

105 guest rooms, reinforced concrete frame, brick, hollow tile, plaster walls; Herbert S. Green, Alamo Bank Bldg., San Antonio, and Peters & Haynes, Lubbock, Asso. Archts. 6-9

Tex., Houston—Mrs. Pearl Cronkrite let contract to O. P. Steeger, for \$11,000, 2-story, 11-room, brick veneer duplex at 2416 Arbor in Riverside.

## Miscellaneous

Ga., Cedartown—Ethel Harpst Home for Dependent Children broke ground for \$25,000 dormitory for boys. 12-23

Okla., Tulsa—International Petroleum Exposition, J. Burr Gibbons, Gen. Mgr., constructing 2 buildings and covered-in connecting building; Braden Co. has contract for removal of old buildings to new site.

Tex., Beaumont—J. M. Butler let contract to W. D. Boggs, 1520 Ave. D, for 40 two-room tourists' cottages, Delaware St. between Magnolia and Grand Aves.; also plan residence, stores, filling station, garage, etc.

Tex., Houston—Polk and La Branch St. Market Co. let contract to Ete & Schmitz, 1004 Harvard St., for \$19,244, 1-story community market building at Polk and La Branch Sts.; Joseph Finger, Archt., Keystone Bldg. 6-9

Tex., Skidmore—V. E. Kessler let contract to E. D. Traweek for frame and stucco cafe building, to be leased to Bob Caldwell, Propr. Bob's Cafe.

## Railway Stations, Sheds, Etc.

Tex., Temple—American Express Co., care E. G. Nance, let contract to Love Construction Co. for 1-story, hollow tile and concrete, 30x110-ft. building for local offices of Co.

## Schools

Ala., Anniston—Board of Education let contract to Charles F. Duke, at \$16,689, for 4-room addition at Pine Ave. School; heating and plumbing contracts on Noble St., Woodstock Ave. and Pine Ave. schools let to Collins Plumbing Co., at \$7087. 6-16

Ala., Bolligee—School Board let contract to Z. T. Wood, Ashland, Ala., for \$28,500, 6-room, brick school building.

Ark., Emmett—School Board let contract to M. O. Branton, 501 Cedar St., Little Rock, for \$10,000 school building.

Ark., Little Rock—School Board let contract to Gordon Walker, the Gen. Contr., for landscaping grounds of new high school, 14th and Park Sts. 7-1-26

D. C., Washington—George Hyman Construction Co., Engrs. & Contrs., 1010 Vermont Ave. N. W., let following sub-contracts on \$1,974,644 McKinley High School; P. F. Branstorf, 1005 Wisconsin Ave.; Carter Bloxon Flooring Co., 700 Insurance Bldg.; Harry Alexander, Inc., elec. contrs., Architects Bldg.; American Mosaic Co., 912 I St., N. W.; Barber & Ross, Inc., bldg. supplies, 11th and G Sts., N. W.; W. G. Cornell Co., plumbers, 18 Patterson St., N. E.; Max Bulbin, 3346 New Hampshire Ave., N. W.; Ironclad Roofing Co., 1121 Fifth St., N. W.; Hyde-Murphy Co., millwork, District Natl. Bank Bldg.; Stephano Lozupone, plasterer, 805 Fifth St., N. W.; McDonald Langstroth Construction Co., 715 14th St., N. W.; Mills Co., 916 15th St., N. W.; E. J. Murphy Co., Inc., painters, 710 12th St., N. W.; Otis Elevator Co., 810 18th St., N. W.; Truscon Steel Co., 424 Transportation Bldg.; Washington Stair & Ornamental Iron Works, 2014 Fifth St., N. E.; Widmayer Steel Co., 1010 Denrike Bldg.; all Washington; James O'Meara, stone contr., Frishy St. and Bell Line R. R.; Wallace & Gale Co., asbestos products, 115 S. Gray St.; both Baltimore; J. G. Wilson Corp., doors, 1600 Walnut St.; Western Waterproofing Co., 803 Abbot Bldg.; both Philadelphia; Empire Fireproof Door Co., 145th St.; Peter Clark, Inc., stage equip., 534 W. 30th St.; Lord & Burnham Co., Irvington-on-Hudson; U. S. Gypsum Co., 17 State St.; all New York; Georgia Marble Co., Nelson, Ga.; Smith & Kline, Inc., bldg. supplies, Rosslyn, Va. 6-17-26

Fla., Pine City—Pinellas County Board of Public Instruction, Arthur Norwood, Chmn., Clearwater, let contract to Louis Fleisher Construction Co., St. Petersburg, at \$31,465, for 6-room addition to Pine City School.

Ky., Frankfort—State Board of Charities and Corrections, Feeble Minded Institute, let contract to Green R. Lyons, Second St., at \$44,000, for 3-story, 110x52-ft. school and assembly, E. Main St.; brick with hollow tile backing and stone trim, fireproof, tin roof, terrazzo, wood and concrete floors, reinforced concrete foundation; steam heating system. Skeen & McDaniel, St. Clair St.; plumbing, Owen Caplinger; electric

work, Fallis & Singleton, Wilkinson St.; ornamental plaster, Louisville Composition Products Co., 976-80 Swan St., Louisville; stone work—water table, bandcourses, pilaster caps, etc., Lexington Cut Stone Co., 608 E. Third St., Lexington; terrazzo not let; Leo L. Oberwarth & Son, Archts., Second St.

Ky., Mayfield—Board of Education, N. J. Gregory, Sec., let contract to Raymond Construction Co., Bowling Green, at \$38,216, for grammar school building, and to L. A. Thorpe, for addition to colored school, at \$5666; Kentucky-Tennessee Light and Power Co., plumbing, heating and wiring both buildings, \$4600. 4-7

Ky., Paducah—School Board, L. J. Hanlfan, Supt., let contract to Hester Andrews, at \$12,987, for 6-room addition to McKinley School; receive bids June 23 for addition to Henry Clay School; G. Tandy Smith, Archt. Guthrie Bldg. 5-19

Ky., Richmond—Madison County Board of Education, Lellia Jane Harris, Supt., let contracts to Muncy Brothers, Berea, at \$11,990, for negro school at Middletown, 1-room building at Doylesville and another at Pleasant Green.

La., Cameron—Cameron Parish School Board, Thos. W. McCall, Supt., let contract to N. F. Sweeney, Lake Charles, La., at \$14,780, for school at Hackberry, building at Grand Chenier, addition to 2 rooms and office at Grand Lake; I. C. Carter, Archt., Kaufman Bldg., Lake Charles. 5-26

La., New Orleans—Tulane University let contract to C. A. D. Bayley & Co., Inc., Interstate Bank Bldg., for 3-story, stone and brick, 40x80 ft. annex to building on St. Charles Ave. near Exposition Blvd.; composition and tile roof; Moise H. Goldstein, Archt., Hibernia Bank Bldg.

La., New Orleans—Tulane University let contract to C. A. Bayley & Co., Inc., Interstate Bank Bldg., at \$92,148, for 4-story, 40x80 ft., fireproof steel and stone addition to Science Building; house offices for faculty, classrooms, library and museum; electric passenger elevator, steam heating system, wood and concrete floors; Moise H. Goldstein, Archt., Hibernia Bank Bldg. 5-26

Mo., Esther—Board of Education, D. H. Holdamans, Supt., let contract to C. D. Richardson, Flat River, at \$32,000, for 2-story and basement, brick and reinforced concrete, fireproof Junior High School; electric wiring to Da-Lite Sales Co., 116 N. 18th St., St. Louis; heating, S. Hawn; plumbing, John Gilmore Plumbing Co., 13 N. 10th St.; Bonnack & Pearce, Archts., 411 Olive St., St. Louis.

Mo., Fayette—Central Howard Payne College, care Bishop McMurray, let contract to John Epple Construction Co., for superstructure of \$150,000, 3-story and basement, 247-33 ft. boys' dormitory; include 100 double rooms, dining room, living room; terrazzo and wood floors, steam heat, slate roof; also received contract for \$100,000 central heating plant; 2 stories and basement; Trueblood & Graf, Archts., 1517 Chemical Bldg., St. Louis.

Mo., Kansas City—Kansas City Plumbing & Heating Co., 1112 Charlotte St., has contract for split system and hot blast heating, and Arthur McKinley Plumbing & Heating Co., 1012 Troost Ave., plumbing contract on addition to Swinney School, 47th and Holly Sts.; W. L. Hutchison Electric Co., 306 East 14th St., electrical work; Charles A. Smith, Archt., Finance Bldg.; Nate W. Downes, Eng., 602 Finance Bldg. 6-9

Mo., St. Louis—Twillman School District let contract to E. H. Beckemeler, 3695a Dover St., for \$19,000, 80x45 ft., brick school building; M. Bouleau, Archt., Buder Bldg.

Oka., Medford—Board of Education, C. E. Herschberger, Pres., let contract to G. E. Walton, Enid, at \$19,189, for 2-story, 56x80 ft., brick school; concrete floors and foundation, asbestos shingle roof, equipment and furnishings cost \$5000; R. W. Shaw, Archt., Masonic Temple, Enid.

Oka., Southard—Board of Education let contract to McMillin & Sheldon, Enid, at \$30,000, for 2-story and basement, brick and stone school building; Joe I. Davis, Archt., Oklahoma City. 6-16

Oka., Tulsa—Rucks-Brandt Construction Co., 1020 Mid-Continent Bldg., Contrs. for 2 schools in Rose Hill District and at Yale Ave. and 11th St., and additions to Woodrow Wilson Junior High, Grover Cleveland Junior High, John Burroughs, Springdale and Mark Twain, let following sub-contracts: Steel and iron, Patterson Steel Co., 801 N. Xanthus St.; marble and tile, Bond Tile & Marble Co., 507 S. Omaha St.; cut stone, Bedford Carthage Stone Co., 541 S. Victor St.; brick and tile, United Clay Products Corp., 109 N. Sixth St.;

## Manufacturers Record

weatherstrip and caulking. Standard Metal Weatherstrip Co., 1513 E. Sixth St.; all Tulsa: Millwork, Ulrich Millwork Co., Independence, Kansas. 6-9

Tenn., Dyersburg—Board of Mayor and Aldermen let contract to Sam Bliven, at \$35,000, for hollow tile, stucco exterior gymnasium; Robert Poston, addition to Jennie Walker primary school at \$16,175; Forum-James Construction Co., Alice Thundmond school addition at \$11,939; George Mahan, Archt., Everett Woods, Asso.; both American Bank Bldg., Memphis.

Tenn., Pikeville—Bledsoe County Board of Education let contract to Mark K. Wilson, E. Third St., Chattanooga, for 2-story, brick, fireproof High School building; 190x59 ft. auditorium 78x50 ft. with seating capacity of 700; heating to Adams & Whitaker: plumbing, Knoedler & Meredith, 119 W. 7th St.; wiring, Tennessee Plumb. & Elec. Co. 6-9

Tenn., Sweetwater—Hiwassee College let contract to W. D. Cousins for new gymnasium.

Tex., Austin—University of Texas let contract to James T. Taylor, First Natl. Bank Bldg., Fort Worth, for new power plant; Herbert M. Greene Co., Archts., Santa Fe Bldg. Dallas.

Tex., Brenham—Board of Trustees Brenham Independent School District, J. L. Chappell, Sec., let contract to Frank Barron, 121 W. Seventh St., Austin, at \$118,596, for brick, concrete frame High School and Manual Arts Building; composition roof, concrete foundation, built-up roof; Giesecke & Harris, Archts., 207 W. Seventh St., Austin; Munsey Wilson, Engr., care Archts. 6-16

Tex., Gregory—Gregory Independent School District Board of Education let contract to W. C. Knacker, Box 1087, Corpus Christi, at \$29,785, for 1-story, brick, hollow tile, concrete, 115x92 ft. school building; 7 classrooms and auditorium, cast stone trim, reinforced concrete foundation, clay tile roof, equipment and furnishings cost \$5000; heaters, Southwestern Heating Co.; clay tile, Parker Roofing Co., Builders Exchange Bldg.; both San Antonio: I. M. Turner, Corpus Christi, electric work; plumbing to Sinton Plumbing and Supply Co., Sinton; Hamon & Co., Archts., McDonald Bldg., Corpus Christi; W. E. Simpson & Co. Engrs., Natl. Bank of Commerce Bldg., San Antonio. 6-9

Tex., Valley View—Valley View Common School District, W. L. Hodges, Chmn. Board of Trustees, let contract to A. L. Whisenant, 3100 Avenue S., at \$17,000 for rural school building; Trustees of City View Common School District, R. W. Windham, member of Board, let contract to L. A. Dulany, 1910 Collins St., both Wichita Falls, at \$16,000, for school building. 6-2

W. Va., Huntington—Park Board, School Board and City of Huntington erect municipal stadium; Meador & Handloser, Archts.; Rust Engineering Co., Contrs., 311 Ross St., Pittsburgh, Pa. See City and County.

## Stores

Ala., Evergreen—George Stamps let contract to D. P. Liles & Co., Brewton, for improvements to business building.

Ala., Huntsville—Mason Furniture Co. let contract to C. E. Baxter, for store building; heating, plumbing and wiring to H. C. Blake.

Ala., Montgomery—Klein-Ashley Co., Dexter Ave., let contract to A. C. Samford, Shepherd Bldg., for \$85,000, 2-story, 96x85 ft., concrete, steel, brick, fireproof building. Church and Lee Sts.; 5 stores face Church St. and 1 face Lee St.; upper floors to be occupied by Well Bros. Cotton Co., 111 Bibb St.; plate glass windows set in copper, oil burning heating system; Okel & Cooper, Archts., Bell Bldg. 5-3

Ark., Helena—Joseph Zamble remodeling former Crebs-Witzpatrick Building.

Ark., Walnut Ridge—A. J. Meyer let contract to J. C. Dowdy, Jonesboro, for department store on Main St.; brick with plate glass front, main floor with balcony.

Fla., Jacksonville—F. Holt let contract to W. T. Hadlow, 32 N. Forsyth St., for \$26,000, 2-story, brick veneer building at 1816 Avondale St.

Fla., Jacksonville—B. S. Setzer, Fifth and Silver Sts., let contract to Nicholas J. Sutton, Springfield, for \$30,000, 2-story, brick 8-store and 8-apartment building, 201-13 W. 11th St.

Fla., St. Petersburg—Rutland Brothers, care J. H. Rutland, 600 7th Ave. S., let contract to E. A. Houser, 1700 First Ave. N., for addition to building on Central Ave.

La., Baton Rouge—Dr. Timothy A. Duggan let contract to L. W. Eaton, 1601 N. Boule-

vard, for \$24,022, 1-story, brick 6-store building at Main and Defrocq Sts.; Norman Archt.

La., New Orleans—Mrs. Jacob Steinman let contract to Haffner & Taylor, 322 Nashville Ave., for \$10,000, 2-story, 29x74 ft. store and apartment building on St. Bernard Ave.; Lockett & Chachere, Archts., Title Guarantees, Archt.

Md., Baltimore—Morris Klein, 576 N. Gay St., let contract to E. Eyring & Sons Co., 808 S. Third St., for \$10,000 1-story brick building at 2102 E. Monument St.; 28x50 ft., Carey roof, steam heat.

Md., Baltimore—Samuel Lowitz, 1006 N. Gay St., let contract to E. Eyring & Sons Co., 808 S. Third St., for \$10,000, 25x76 ft., 2-story, brick building at 5412-14 Harford Road; Carey roof, steam heat; Samuel Smulian, Archt., 3721 Belle Ave.

Mo., Kansas City—Harzfield's Inc., S. E. cor. 11th and Main Sts., start work July 1 on improvements, cost \$15,000; extruded bronze, marble, ornamental plaster show windows and arcade, American walnut back paneling, revolving door; marble work to Kansas City Marble & Tile Co., 3030 Wyoming St.; electric wiring including Frank Adam panel and X-ray reflectors, Squire Electric Co., 401 Wyandotte St.; extruded bronze and glazing, Pittsburgh Plate Glass Co., Fifth and Wyandotte St. (bronze furnished by Davis Extruded Sash Co., Lincoln, Neb.); revolving door, Atchison Revolving Door Co., Independence, Kansas; ornamental plaster, G. C. Turner, 334 N. Oakley Ave., and Kansas City Architectural Decorating Co., 1301 Montgall St.; show window backs, Jackson Showcase Works, 622 E. Thirld St.; ornamental lighting fixtures, Bailey-Reynolds Chandelier Co., 1531 McGee St.; all contracts let; William R. Bovard, Archt., 907 Orear-Leslie Bldg. 6-16

Mo., St. Louis—Lindell Realty Co., 316 N. Eighth St. let contract to Jansen & Schime, 1834 Morgan St., for altering 3-story stores at 513-17 Franklin St., \$10,000; W. P. McMahon, Archt., 820 Buder Bldg.

Mo., St. Louis—L. A. & H. Freund, 410 Wainwright Bldg., let contract to Huger & Buecker Construction Co., 801-2 Wainwright Bldg., for \$17,900, 1-story stores, 829-33 N. Broadway; composition, tar and gravel roof; Wedemeyer & Nelson, Archts., 8245 Wainwright Bldg.

Mo., Springfield—J. M. Carnahan, 1039 S. Weller St., let contract to S. E. Dobbs, 530 W. Lynn St., for 1-story and basements, 50x62 ft., \$15,000 building, Central St. and

Robberson Ave.; include 2 stores and filling station, brick, tile and concrete; Heckenlively & Mark, Archts., Landers Bldg.

N. C., Asheville—J. T. Bledsoe & Co., 16 Government St., erecting four \$15,000, 2-story, 24x83 ft., brick store and apartment building at Haywood Road and Mildred Ave.; wood and concrete floors, brick and concrete foundations, asphalt roofing; steam heating and plumbing, Pumford & Pope, 413 Haywood Rd.; electric work, Mathews Electric Co.; R. F. D. I., Grace; owners build. 6-16

N. C., Charlotte—Elizabeth Realty Co. let contract to J. A. Gardner, 211½ N. Tryon St., for \$50,000, 2-story Arcade Building on Trade St.; semi-fireproof, stores on first floor, offices above.

N. C., Greensboro—J. C. Bishop let contract to Jewell-Riddle Co., Inc., Sanford, for \$40,000, 1-story, brick, 12-store building on Elm and Bishop Sts. 6-16

Tenn., Memphis—New Bry's let contract to E. J. Pearson, for remodeling Jefferson Ave. and Front St. sides of building; E. L. Harrison, Archt., both Fidelity Bank Bldg.

Tenn., Morristown—E. M. Grant let contract to Roy Morrison, for brick business buildings to be occupied by J. C. Penny Co. and Carl Cameron Jewelry Co.

Tex., Houston—Charles Doliao let contract to James C. Plank, 3318 Leeland St., for \$10,000, 2-story brick veneer store and apartment building at Center and Brashear Sts.

Tex., San Antonio—Fox Co., 209 Alamo Plaza, let contract to W. C. Thrailkill, for \$65,000, 93x263 ft., fireproof, reinforced concrete frame and brick building, 1700 block Broadway; Adams & Adams, Archts., both Builders Exchange Bldg.

Tex., San Benito—T. N. Coeder let contract to Scholes & Scholes, for \$50,000 store and office building on Sam Houston Blvd.

Tex., Sherman—Allman and Wood have contract for alterations and repairs to Crenshaw Building, 100 block N. Travis St., to be occupied by Settle & Settle Dry Goods Store; John Tulloch, Archt.

Tex., Waco—Clint Padgett, Pres of Tom Padgett Co., 425 Franklin Ave., let contract to J. F. Cason, 1202 N. 18th St., for remodeling Padgett Building, Fifth and Franklin Sts.; new plate glass show window; Harry L. Spicer, Archt.

Va., Roanoke—Najjum Brothers, 515 Second St., S. W., let contract to T. D. Franklin 366 Mountain Ave., S. W., for 1-story, 3-store building, Commerce St. and Franklin Road.

Va., Richmond—William J. Anderson, Boston, Mass., let contract to Muhleman & Kayhoe, 1224 Greycourt Ave., for 3 stores at 2, 4 and 6 E. Grace St.; brick, reinforced concrete and stone, Spanish design; Carl Lindner, Archt., State & City Bank Bldg.

W. Va., Morgantown—A. J. Garlow, Pres. Second Natl. Bank, let contract to Cole Bros. Construction Co., Price Bldg., for 3-story, brick, tile and steel frame, 130x119 ft. business building; concrete foundation, wood floors; Gilbert Steel Co., Diamond Bldg., Pittsburgh, Pa., has contract for 200 tons structural steel; Baker & Coombs, Archts., 325 Demain Ave. 6-9

### Theaters

Ark., Gentry—O. W. Feemster erecting 25x80 ft., 1-story, brick theater building, to be operated by William Phillips.

Tenn., Jackson—Parish Construction Co. has contract for \$22,000 to \$25,000 negro theatre building on Lafayette St.

### Warehouses

Ala., Birmingham—Birmingham Realty Co., 2118 First Ave. North, let contract to Hetrick Engineering Co., Suite G-6 Terrace Court, for \$25,000, 1-story, 50x140 ft. warehouse and office building; ornamental face brick on 2 sides, steel roof trusses, steel sash, plate glass front and side set in copper, concrete floors; to be occupied by Ingersoll-Rand Co., 11 Broadway, New York; Charles H. McCauley, Archt., Jackson Bldg. 4-17

Fla., Jacksonville—Victor Zambetti, 14th and Market Sts., erecting \$25,000, 100x100 ft., 1-story, concrete block warehouse, 14th and Liberty Sts., to house Fisk Tire Co.'s branch; concrete foundation; electric work to Livingston Yonge; gas heating, Jacksonville Gas Co.; George Holmes, Archt., 135 East Bay St.; owner builds. 6-16

Tenn., Memphis—John Q. Eaton, 602 Randolph Bldg., erecting \$12,000, 1-story, 75x50 ft., brick and steel warehouse, Butler and S. Second Sts.; concrete floors, built-up roof; E. L. Harrison, Archt., 1501 Fidelity Bank Bldg.

Tex., Beaumont—Norvell-Wilder Hardware Co., Park & Bowles Sts., let contract to Herman Weber, Perlstein Bldg., for \$70,000, 2-story, 155x220 ft., brick, fireproof warehouse and office building opposite Kansas City Southern railway depot; F. W. Steinman & Son, Archts., San Jainto Life Bldg.

## WANT SECTION

### THE CLASSIFICATIONS IN THIS SECTION ARE:

#### Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous.

*Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.*

#### Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

#### Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

#### Machinery and Supplies

**Amusement Devices.**—Maderia Beach Park, St. Petersburg, Fla.—Wants amusement devices for 30 acre park, especially water rides and beach devices.

**Amusement Park Equipment.**—Tulsa Amusement Co., Inc., W. P. Falkenberg, Box 1985, Tulsa, Okla.—Wants equipment for amusement park.

**Bakelite Products.**—T. T. Plummer, 1922 Park St., Oklahoma City, Okla.—Wants to correspond with manufacturers of bakelite products.

**Boxes.**—See Wrappers, etc.

**Derrick (Stiff Leg).**—J. L. Allen (Stone Setting Contr.), Box 294, Bowling Green, Ky.—Wants second-hand stiff leg derrick, 4 or 5 ton capacity, or all iron parts for same; good condition.

**Fire Escapes.**—J. B. Huntington, Sec., Y. M. C. A., 305 Market St., Wilmington, N. C.—Wants used or new fire escapes.

**Flexible Shaft.**—J. C. Jennings, Winnsboro, Tex.—Wants flexible shaft to attach to motor and tools to attach to same, such as drills, sanding disk, steel brush buffer, possibly small saws, etc.; new or second-hand; state prices.

**Gang Mower.**—Pine Crest Golf Club, Longview, Tex.—Wants gang mower.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

**Gas Stoves and Appliances.**—Upham Co., Mt. Vernon, Ohio—Wants stoves and appliances.

**Hammer.**—Baltimore Tool Works, Inc., 108 Grant St., Baltimore, Md.—Wants used Bradley compact hammer, 100 to 150 lbs.; prefer arranged for motor drive.

**Hoist.**—Lamb & Jensen Dredging Co., Inc., Sunrise Bldg., Sunrise Blvd. and Grove St., Freeport, L. I., N. Y.—In market for small 5 drum belt-driven hoist, either new or second hand.

**Labels.**—See Wrappers, etc.

**Machine Tools.**—Standard Mfg. and Engineering Corp., Box 553, Jacksonville, Fla.—Wants data and prices on various kinds of equipment for machine shop.

**Meters.**—Upham Co., Mt. Vernon, Ohio—Wants meters for 50 mile gas pipe line in Olney, Tex.

**Pipe and Fittings.**—Upham Co., Mt. Vernon, Ohio—Wants pipe and fittings for 50 mile gas line at Olney, Tex.

**Regulators.**—Upham Co., Mt. Vernon, Ohio—Wants regulators for 50 mile gas pipe line in Olney, Tex.

**Rock Drills.**—E. Berry, Florence, Miss.—Wants catalogs and prices on rock drills.

**Road Forms.**—Delray Lumber Co., Delray, Fla.—Wants to correspond with manufacturers of steel sidewalk forms and prefers type known as, "E-Z."

**Street Sweepers.**—W. H. Sykes, Smithfield, Va.—Wants to correspond with dealers or manufacturers of street sweepers.

**Tin Cans.**—A. M. C. Jobson, 812 Citizens Bank Bldg., Tampa, Fla.—Wants 50 to 100 pound capacity tin cans, similar to lard cans.

**Veneer Lathe, etc.**—A. R. Robinson, P. O. Box 745, Birmingham, Ala.—Wants one 66-in. veneer lathe, clipper and knife grinder.

**Well Drilling Machinery.**—E. Berry, Florence, Miss.—Wants catalogs and prices on well drilling machinery.

**Woodenware.**—New Electric Ice Co., Inc., Miami Ave. and 27th St., Miami, Fla.—Wants names and addresses of manufacturers of woodenware such as water buckets, or kegs for holding water; may want several carloads of water containers from 6 to 8 gal. capacity.

**Wrapper, etc.**—The Apex Razor Blade Corp., Suite 1114, Munsey Bldg., Baltimore, Md.—Wants quotations on wrappers, boxes and labels, used for wrapping and packing safety razor blades of the Gillette type.

## CONSTRUCTION DEPARTMENT

## Manufacturers Record

**Efficiency Pumps and Compressor Co., Second Natl: Bank Bldg., Houston, Tex.—Wants:**

- (1) **Boring Mill**—36-in. 4 jaws Bullard (new era type).
- (2) **Milling Machine**—No. 3B Universal Milwaukee milling machine with double over arm, spiral dividing centers and vise.
- (3) **Lathe**—16x9 geared head with small face plate thread cutting dial and apron clutch control.

**J. R. Christian, Box 523, Houston, Tex.—Wants following:**

- (1) **Dump Cars**—12 8-yd., 36-in. gauge.
- (2) **Drag Line**—1 yd. to 1½ yd., Pawling & Harnischfeger preferred.
- (3) **Gasoline Locomotive**—36-in. gauge 12 ton.
- (4) **Gasoline Shovel**—one ½-yd.

**Bids Asked**

**Absorbent Cotton.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 28 for absorbent cotton.

**Adhesive Plaster.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 28 for adhesive and zinc oxide plaster.

**Air Corps Barracks and Utilities.**—Constructing Quartermaster, Selfridge Field, Mich.—Receives bids June 25 for constructing 5 air corps barracks and utilities.

**Ash Handling System.**—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Receives bids for ash tank, conveyor system, steam, water and drain piping at Marine Barracks, Parris Island, S. C.; specifications 5410.

**Bakers Work Table.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 30 for bakers work table; information on application.

**Boat Hulls and Derricks.**—U. S. Engr. Office, Louisville, Ky.—Receives bids July 11 for 6 maneuver boat hulls and derricks.

**Breakwater, etc.**—U. S. Engineer Office, Custom House, Boston, Mass.—Receives bids June 29 for breakwater extension and jetty repair and dredging in Saco River, Me.

**Bridge.**—State of Kentucky. See Construction News—Roads, Streets, Paving.

**Bridge.**—State of Maryland receives bids for 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—Huntington, W. Va. See Construction News—Bridges, Culverts, Viaducts.

**Bridge.**—State Highway Comm., Frankfort, receives bids for 2 bridges. See Construction News—Bridges, Culverts, Vladucts.

**Brushes.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for brushes; specifications, etc., on application.

**Buildings and Utilities.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids August 11 to furnish all labor and materials to construct buildings and utilities, including roads, walks, and drainage at U. S. Veterans Hospital, Tucson, Arizona; specifications, etc., on application.

**Chairs.**—W. H. Perkins, Chrmn. Building Committee of School Dist. No. 1, Baton Rouge, La.—Receives bids July 11 to furnish and install approximately 1700 auditorium chairs in Baton Rouge Senior high school, also 350 auditorium chairs in Bernard Terrace School.

**Chairs.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 24 for chairs and settees; specifications, etc., on application.

**Chiffoniers.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 28 for chiffoniers; specifications, etc., on application.

**Clips and Pens.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for clips and pens.

**Courthouse Dome.**—Goliad County, Comrns. Court, Goliad, Tex.—Receives bids June 30 for repairs to dome; 60 ft. high, 20 ft. sq. at base.

**Convalescent Suits.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for convalescent suits; specifications, etc., on application.

**Cushions.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for ring cushions; specifications, etc., on application.

**Dental Equipment.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for dental equipment, to be supplies during the fiscal year ending June 30, 1928; specifications, etc., on application.

**Drainage.**—Comrns. of Nueces County, Bishop-Driscoll Drainage District No. 3 of Nueces County, Bishop, Tex.—Receives bids July 6 for constructing canals, drains, ditches, laterals and bridges, in connection

with drainage system; work includes 458,184 cu. yds. of excavation and 33 bridges.

**Dredging, etc.**—Port Development Comrn., Baltimore, Md.—Receives bids June 29 for preliminary work, dredging the harbor and building the bulkhead for the McComas St. terminal improvements; bulkhead will have length of about 1915 ft. and will be faced with concrete wall; The J. E. Greiner Co., Consit. Engrs., Port Dev. Comn.

**Dredging.**—U. S. Engineer Office, Wilmington, Del.—Receives bids July 6 for dredging Woodbury and Mantua Creeks, N. J.

**Electric Lights.**—W. H. Perkins, Chrmn., Building Committee, School Dist. No. 1, Baton Rouge, La.—Receives bids July 11 to furnish, erect and complete all electric light fixtures and lamps, inside and outside of Baton Rouge Senior high school.

**Filter.**—Board of Awards, Baltimore, Md., George F. Weighardt, Water Engr., B. L. Crozier, Ch. Engr.—Receives bids July 6 for repairs and replacements to concrete structures at additions to Montebello Filters.

**Footways.**—Baltimore, Md. See Construction News—Roads, Streets, Paving.

**Garbage Incinerator.**—City of Tallahassee, Wm. R. Galt, Mgr.—Receives bids July 12 for 1 garbage incinerator: Furnaces—of 2 unit type guaranteed capacity 50 tons, 12 hr. stack not less than 100 ft. high, have radial design of brick and proper dimensions to care for duplicate furnaces, operating together of singular; fan for forced air so arranged of sufficient capacity to deliver approximately 13,000 cu. ft. a minute, with air ducts so arranged to supply air to 1 or both furnaces at a time. Building—of concrete or brick construction, concrete foundation and floors, fireproof roof, "such as tile, concrete, etc.", maximum window area windows of steel construction glazed with rough wire glass, stoking room wall to have 2 rolling steel shutter doors, approximately 11x10 ft.; shower bath and locker room installed by contractor with necessary plumbing; city to make necessary water and sewer connections; electric wiring to be installed by contractor with necessary fixtures, all wires to be placed in conduits.

**Generator Set, etc.**—City of Alexandria, La., I. W. Sylvester, City Engr.—Receives bids July 7 for 2500 kw, 3 phase, 60 cycle, 2400 volt turbine driven generating set, also surface condenser and accessories.

**Gravel.**—Franklin, La. See Construction News—Roads, Streets, Paving.

**Gloves.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for gloves; specifications, etc., on application.

**Gymnasium Equipment.**—Department of Education, Board of School Commrs., Baltimore, Md.—Receives bids June 29 for furnishing equipment, tools and supplies for vocational shops and department of education.

**Heating System.**—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Receives bids July 1 to furnish and install labor and material for heating system, etc., in U. S. Post Office and Customhouse, at Galveston, Tex.; specifications, etc., on application.

**Lathe.**—Bureau of Supplies and Accounts, Navy Department, Washington, D. C.—Receives bids June 28 for lathe, engine, tool-makers; specifications, etc., on application.

**Laundry.**—U. S. Veterans Bureau, Room 791 Arlington Bldg., Washington, D. C.—Receives bids July 5 to furnish labor and materials for addition to laundry and connecting tunnel at U. S. Veterans' Hospital No. 81, New York (Bronx), New York; specifications, etc., on application.

**Miscellaneous Supplies.**—General Purchasing Office of Panama Canal, Washington, D. C.—Receives bids July 6 for refrigerating apparatus and equipment, electric motor, iron, steel, hose, paints, hard tar, copper, etc.; Circ. No. 1810.

**Motors.**—See Sewers, etc.

**Parcel Post Lift.**—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Receives bids July 14 for parcel post lift in U. S. Post Office, Montclair, N. J.

**Physiotherapy Equipment.**—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for physiotherapy equipment; specifications, etc., on application.

**Pipe (Cast Iron).**—See Sewers.

**Pipe (Concrete).**—See Sewers.

**Pipe (Reinforced Concrete).**—See Sewers.

**Pipe (Terra Cotta).**—See Sewers.

**Pipe (Vitrified).**—See Sewers.

**Pumps.**—See Sewers, etc.

**Pumping Station.**—See Sewers.

**Road.**—Martinsburg, W. Va. See Construction News—Roads, Streets, Paving.

**Road.**—State of Arkansas receives bids for 4 roads. See Construction News—Roads, Streets, Paving.

**Road.**—State of Kentucky receives bids for 15 roads. See Construction News—Roads, Streets, Paving.

**Road.**—Jacksonville, Fla. See Construction News—Roads, Streets, Paving.

**Road.**—Rustburg, Va. See Construction News—Roads, Streets, Paving.

**Road.**—Franklin, La., receives bids for 2 roads. See Construction News—Roads, Streets, Paving.

**Road.**—San Antonio, Tex. receives bids for 8 roads. See Construction News—Roads, Streets, Paving.

**Road.**—Galveston, Tex. See Construction News—Roads, Streets, Paving.

**Road.**—Paducah, Ky. receives bids for 32 roads. See Construction News—Roads, Streets, Paving.

**Road.**—State of Kentucky receives bids for 12 roads. See Construction News—Roads, Streets, Paving.

**Roadway Embankment.**—Pointe à la Hache, La. See Construction News—Roads, Streets, Paving.

**School Equipment.**—W. H. Perkins, Chrmn., Building Committee of School Dist. No. 1, Baton Rouge, La.—Receives bids July 8 to furnish and install equipment in Baton Rouge Senior high school; including tables, chairs, desks, etc.

**School Supplies.**—Board of Awards, Baltimore, Md.—Receives bids June 29 to furnish machinery equipment, tools and supplies for Vocational shops and gymnasium equipment; John H. Roche, Sec. Board of School Commrs.

**Seating (Church).**—Porter Memorial Baptist Church, Rev. A. L. Goodrich, Pastor, 730 S. Limestone St., Lexington, Ky.—Receives bids and hears representatives of seating companies June 25; 30 minutes allowed each representative; separate rooms available if desired.

**Sewage Pumps.**—R. H. Crox, Constr. Dept. Streets and Sewers, Chattanooga, Tenn.—Receives bids July 10 to furnish and install 3 nonclogging sewage pumps for pumping unscreened sewage, including electric motors and other required electrical equipment at the sewage pumping station; specifications, etc., on application.

**Sewers, etc.**—City of Daytona Beach, Fla., Walter A. Richards, City Mgr.—Receives bids July 5 to furnish labor and materials for retaining wall, sewers, sewer laterals and connections on N. Beach St., from Fairview Ave. to N. City limits; following quantities: 5520 ft. 6-in. house sewers, 5520 ft. 6-in. house drain; 1735 ft. 8-in.; 2455 ft. 10-in. sanitary sewers; 1560 ft. 10-in. cast iron force main; 1282 ft. 15-in., 3328 ft. 18-in., 418 ft. 21-in., 412 ft. 24-in., 236 ft. 27-in. and 385 ft. of 30-in. storm drain; manholes; standard manhole castings, catch basins complete; one lamp pole; 138 water service lines complete; 3860 ft. 6-in. water main; three 500 gal. sewage pumps; three 20 h. p. 220 volt motor.

**Sewers.**—Eugene Mastere, City Mgr., St. Augustine, Fla.—Receives bids July 5 to construct 22 mi. of 4 to 18-in. pipe, sanitary sewers, manholes, and 8 to 15-in. storm sewers, catch basins; Peter Kendrick Engineering Co.

**Sewers.**—Board of Awards, Baltimore, Md.—Receives bids June 29 for storm drains and sanitary sewers in sewer Dist. H-7, Storm Water Contract, No. 108; work includes: 952 ft. of 42-in., 285 ft. 36-in., 441 ft. of 30-in. and 956 ft. of 24-in. reinforced concrete pipe drain; 534 ft. of 18-in., 927 ft. of 15-in., 387 ft. of 10-in. and 4424 ft. of 8 and 8-in. vitrified pipe drain; 4000 ft. of 4 and 6-in. underdrain; 389 ft. of standard manhole; and other miscellaneous items; Milton J. Quark, City Engr.

**Sewers.**—Board of Commrs., Huntington, W. Va.—Receives bids July 5 for lateral sewers in Jefferson Ave., etc.; A. B. Maupin, City Engr.

**Sewers.**—Town Council, North Augusta, S. C.—Receives bids June 24 to construct terra cotta pipe sewers on Meridian, Clifton Ave. and an outfall sewer running east of Sather pond; 2952 ft. of 8-in. and 665 ft. of 10-in. terra cotta pipe; 6 manholes; 74 Y branches terra cotta and 1 disposal plant; J. T. Wise, Consit. Engr.

**Sewers.**—Board of Commrs., State Institutions, Tallahassee, Fla.—Receives bids June 28 for constructing sanitary sewer along Ft. King Ave., Ocala; approximate quantities are: 2400 ft. 6-in., cast iron pressure line; 4208 ft. 8-in., 600 ft. of 6-in. vitrified or concrete sewer; manholes; pumping station; pavement restoration; sidewalk restoration; wet well.

**Street.** — Daytona Beach, Fla. See Construction News—Roads, Streets, Paving.

**Street.** — Jackson, Tenn. See Construction News—Roads, Streets, Paving.

**Street.** — St. Augustine, Fla. See Construction News—Roads, Streets, Paving.

**Street.** — South Charleston Branch, Charleston, W. Va. See Construction News—Roads, Streets, Paving.

**Street.** — Tampa, Fla. See Construction News—Roads, Streets, Paving.

**Street.** — Baltimore, Md. See Construction News—Roads, Streets, Paving.

**Street Lighting System.** — Board of Public Service, City Hall, St. Louis—Receives bids June 28 for installing electric street lighting system in District E; plans, etc., from Rooms 300, 301 and 304 City Hall.

**Street.** — Huntington, W. Va. See Construction News—Roads, Streets, Paving.

**Street.** — Prichard, Ala. See Construction News—Roads, Streets, Paving.

**Street.** — Warrenton, Mo. See Construction News—Roads, Streets, Paving.

**Street.** — Danville, Va. See Construction News—Roads, Streets, Paving.

**Supplies.** — State Board of Control, R. I. Tenant, Purchasing Division, Austin, Tex.—Receives bids July 5 to furnish supplies to State eleemosynary and educational institutions, aluminumware, brushes, disinfectants, drugs, etc.

**Tablets.** — U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for tablets; specifications, etc., on application.

**Telephone System.** — Treasury Dept., Supervising Architect's office, Washington, D. C.—Receives bids July 15 to furnish and install automatic telephone system in National Home for Levers, Carville, La.; specifications, etc., on application.

**Tools.** — Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 25 to furnish tools, for delivery to Hampton Roads (Sewell's Point), Va.; Sch. No. 725.

**Twine.** — U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for twine; specifications, etc., on application.

**Water Piping.** — Treasury Dept., Supervising Archt. Office, Washington, D. C.—Receives bids July 12 for removing old water piping and installing new water piping, plumbing fixtures, etc., in U. S. postoffice and courthouse, Jacksonville, Fla.; specifications, etc., on application.

**Water Works.** — Mayor T. L. Covington, Rockingham, N. C.—Receives bids July 7 to construct 1,000,000 gal. water purification plant; Carolina Engineering Co., Engrs.

**Water Works.** — Town of Roseland, La., W. E. Palmer, Mayor—Receives bids July 14 to furnish material and construct water works system; \$42,000 available; J. W. Billingsley, Consil. Engr., Interstate Bank Bldg., New Orleans.

**Water Work Materials.** — Mountain Spring Water Co., Elizabethton, Tenn.—Receives bids July 1 for following:

(1) Concrete Sand—300 cu. yds.

(2) Crushed Stone or Washed Gravel—600 cu. yds.

(4) Galvanized Conduit—5200 ft. of  $\frac{1}{2}$  in.

(5) Fittings (Cast Iron)—4 tons.

(6) Motors—10 h. p. and 15 h. p. electric.

(7) Portland Cement—1200 bbls.

(8) Oiled Jute—400 lbs.

(9) Pumps—50 g. p. m. and 250 g. p. m. centrifugal pump.

(10) Pipe—11,700 ft. 6-in. B. & S. pipe, Class B or equal.

(11) Valves—three 10-in. H. E. gate valves and boxes, ten 6-in. H. E. gate valves and boxes, 10-in. float valve.

(12) Reinforcing Bars—75,000 lbs.

(13) Wire—10,500 ft. 14 D. B. R. C. wire.

(14) Virgin Pig Lead—12,000 lbs.

Specifications and bid sheets furnished on application, J. B. McCrary Engineering Corp., Constr. Engrs., Atlanta, Ga.

**Yarn.** — U. S. Veterans Bureau, Washington, D. C.—Receives bids June 27 for yarn; specifications, etc., on application.

### Building Material and Equipment

Rev. Chas Henson, Pastor, First Baptist Church, Perry, Okla., wants prices on following for \$18,500 church:

**Metal Ceilings.**

**Plaster Board.**

**Rolling Partitions.**

W. P. Thurston Co., Inc., Contrs., Box 6611, Miami, Fla., wants prices on following for \$475,000 Dade County Agricultural High School:

**Flooring**—terrazzo and tile.

**Gelman & Haves, Owners-Builders,** 482 Seventh St. N. W., Washington, D. C., want prices on following for \$175,000 apartment building:

**Flooring**—hardwood.

**Incinerator.**

**Metal Doors.**

**Roofing.**

**Steel Sash and Trim.**

Robert Bristow, Lynn Haven, Fla., Supt. of Construction, Bob Jones College, Inc., wants prices on following for \$500,000 College:

**Cast Stone.**

**Heating Plant.** (Steam from central plant).

**Incinerator.**

**Landscape Gardening.**

**Refrigerators**—electric.

**Roofing**—tile.

**Sewage Disposal Plant.**

**Ventilators.**

W. H. Merrill, Eufaula, Ala., wants prices on following for \$15,000 residence:

**Cast Stone.**

**Electric Refrigerators.**

**Flooring**—hardwood, linoleum, terrazzo, tile, composition.

**Incinerator.**

**Limestone.**

**Marble.**

**Roofing**—asbestos shingle, asphalt shingle.

James Verhey, Archt., 343 Volunteer Bldg., Chattanooga, Tenn., wants prices on following for 25 to 30 dwellings, cost \$250,000:

**Electric Refrigerators.**

**Flooring**—hardwood, linoleum, tile, composition.

**Incinerator.**

**Plaster Board.**

**Roofing**—asbestos shingle, asphalt shingle, tile.

John T. Waller, Archt., Hopkinsville, Ky., wants prices on following for armory, office and theater building:

**Flooring**—tile.

**Limestone.**

**Metal Ceilings.**

**Roofing**—built-up.

**Sprinklers.**

**Tile**—hollow.

Frank Barron, Contr., 121 W. Seventh St., Austin, Texas, wants prices on following for \$118,500 High School and Manual Arts Building, Brenham:

**Cast Stone.**

**Flooring**—composition, hardwood, linoleum and tile.

**Incinerator.**

**Roofing**—built-up.

**Steel Sash and Trim.**

English Construction Co., 15 W. 91st St., New York City, has opened office at 1311 H St. N. W., Washington, D. C., and wants catalogs and circulars on all building and general contracting lines.

Kay Bee Construction Co., Bunnell, Fla., wants prices on following:

**Roofing**—tile.

**Steel Sash and Trim.**

Fred Wright, Archt.-Engr., care Race Track, Bowie, Md., wants prices on following for grandstand, clubhouse and paddock:

**Roofing**—slag.

**Steel Sash and Trim.**

**Vaults.**

**Wire Glass.**

Gunter Lumber Co., Shelbyville, Tenn., wants prices on following for 5-story reinforced concrete office building:

**Granite Sand.**

H. E. Blythe, 516 Larkin St., Athens, Tex., wants prices on following for residence:

**Electric Light Fixtures.**

**Electric Refrigerator.**

**Flooring**—edge grain pine, linoleum.

**Roofing**—asbestos shingle.

Diboll & Owen, Ltd., Archts., 412-15 Interstate Bank Bldg., New Orleans, La., wants prices on following for dormitory at Newcomb College:

**Elevators.**

**Flooring**—terrazzo and tile.

**Limestone.**

**Marble.**

**Refrigerators (Electric).**

**Roofing**—built-up and tile.

**Steel Sash.**

**Tile**—hollow.

Ira B. Thompson, Liverne, Ala., wants prices on following for \$12,000 residence:

**Electric Heating Plant.**

**Electric Refrigerators.**

**Flooring**—brick tile.

**Roofing**—clay shingle.

**Tile**—hollow.

W. R. Grimshaw Co., Contr., 401 Kennedy Bldg., Tulsa, Okla., wants prices on following for \$85,000 Sunday school, Okmulgee, Okla.:

**Flooring**—linoleum, tile.

**Limestone.**

**Metal Doors.**

**Roofing**—tar and gravel.

Q. E. Herman, Archt., Hickory, N. C., wants prices on following for school building near Newton:

**Flooring**—composition.

**Roofing**—concrete tile.

Rieff Lumber Co., 212 W. Second St., Little Rock, Ark., wants prices on following for dwellings:

**Flooring**—hardwood, tile.

**Roofing**—asbestos shingle.

Sec. School Board, Rock Springs Independent School District, Rock Springs, Texas, wants prices on following for \$40,000 school:

**Limestone.**

**Metal Ceilings.**

### Trade Literature

#### "Life Preservers," Published by Sullivan.

The Sullivan Company of Memphis, Tenn., and Montreal, Canada, have published a very unique series of descriptive folders covering the uses and specifications of their line under the title, "Life Preservers for Buildings and Equipment," which include waterproofings, damp proofings, accelerators, cement-mixing compounds, preservatives for wood, concrete and metal, cement paints and stains, technical paints, etc. It consists of a folder designed to fit regulation correspondence files and the separate products or groups data are enclosed in this, each printed on a different colored paper and in colored inks. Each circular has the A. I. A. file designation and the conventional file designation, while the folder itself, printed and embossed on cardinal red, has the A. I. A. classification number for waterproofings and also the name of the Sullivan Company to file, if desired, under the name of the manufacturer. The company will send a copy to anyone on request.

#### New Koehring Shovel, Crane and Dragline.

The Koehring 501 shovel, crane and dragline, gas or electric, is the subject of a fine catalogue, with specifications, which is published by the Koehring Company, Milwaukee, Wis., manufacturers of pavers, mixers, gasoline shovels, cranes and draglines. The No. 501 is built in  $1\frac{1}{2}$ ,  $1\frac{1}{4}$  or 1 cubic yard capacity, as may be desired. It is a full-revolving machine and is of up-to-date construction throughout. The pictures are numerous and very complete, showing the various parts of the machine, as well as the complete product, both as it appears on display and when at work. There are 40 pages in the book, which is full of such useful information that it will be preserved. Copies may be had on application to the company.

#### New Link-Belt Book.

"Handling Things—From Where They Are to Where You Want Them" is the highly appropriate title given to Book No. 575 of the Link-Belt Company, Chicago, which tells all about elevators and conveyors built in the company's plant. It is bound in a red cover of stiff paper and is copiously illustrated. Its contents include a wide range of handling equipment as applied to varied industrial conditions. It embodies information of a comprehensive character covering many relatively simple but efficient methods of cutting elevating and conveying costs to a minimum. The book is finely printed on stout paper and the pictures are all well done.

**Blaw-Knox Central Mixing Plants.**

The Blaw-Knox Company, Pittsburgh, Pa., has issued a catalogue entitled "Inundation and Central Mixing Plants," and they claim it is really the last word on the making of good concrete. There are a number of illustrations, besides blueprints of their machinery, which convey complete information. This system of mixing concrete provides for mechanical control of water-cement ratio and the production of constant concrete. It is claimed that once the proportions of the mix have been determined, and the equipment has been set to proportion the ingredients in accordance with this mix, no changes or adjustments of the measuring equipment are necessary.

**Chicago Pneumatic Diesel Engines.**

Bulletin 774: First Edition, issued by the Chicago Pneumatic Tool Company, Chicago, Ill., contains complete data, with pictures, of the Chicago Pneumatic M. W. M. Benz Diesel Engines, Type RH 40. It is remarked that these engines are suitable for either stationary or marine service requiring an economical and dependable power unit, which can be equipped to meet any special condition of speed regulation, and because of their complete combustion and effective injection system these engines operate very successfully with the cheaper grades of fuel oil and other fuels now adapted to Diesel engine operation. Similar engines are furnished for operation on natural gas.

**Corning Glass Works Bulletin.**

Pyrex Laboratory Glassware, manufactured by the Corning Glass Works, Corning, N. Y., is comprehensively described and illustrated in their catalogue Form B-18. It is stated that Pyrex is a trade mark used by the company on various low-expansion borosilicate glasses and products which possess a combination of qualities rendering them superior in many respects; also that the simple chemical composition of the glass furnished for laboratory ware is an advantage as regards possible contamination of liquids in contact with it. It contains no metals of the magnesia-lime-zinc group and no heavy metals.

**International Filter Bulletin.**

The International Filter Company, Chicago, Ill., have just published Bulletin No. 252 on International filters. It is a very elaborate and complete publication, being a treatise on filtration as well as a description of the company's pressure filters. It is finely and profusely illustrated and the pictures, together with the descriptive and tabulated data, round out the issue in a most comprehensive and instructive as well as entertaining style.

**Dean Hill Pump Bulletin.**

The Dean Hill Pump Company, Anderson, Ind., has issued Bulletin No. 403, describing and illustrating double-suction centrifugal pumps of the ball-bearing type. A front-page picture shows one of the pumps equipped with a three-horsepower motor. On the second page is a cross-section view of the pump, and this is followed by a complete description, with tabulated data.

**Pyott Foundry's Unique Folders.**

The Pyott Foundry Company, 328 North Sangamon street, Chicago, has prepared and published a set of seven direct-mail folders of a most unique and attractive style for the presentation of the company's products, which include pulleys, hangers, flywheels, sprockets, gears, etc. The pictures on the folders are exceedingly good and interesting, although of an unusual character.

**Richards-Wilcox Products Booklet.**

Doorways for June, published by the Richards-Wilcox Manufacturing Company, Aurora, Ill., contains much timely information about the company's products, including garage door hardware, vanishing doors for homes, fusible links, fire doors and hardware for them, besides sundry other articles of popular usefulness and value.

**Box Crane Bulletin.**

Box hand-operated cranes are comprehensively described and pictured in a new Bulletin, No. 3400, published by the Box Crane and Hoist Corporation, Philadelphia, Pa., manufacturers of electric traveling cranes, hand-operated cranes, jib cranes, electric hoists, grab-bucket cranes, monorail systems, chain hoists and I-beam trolleys. In addition to descriptions the bulletin contains a large amount of valuable tabulated data.

**American Truck and Body Catalogue.**

The American Truck and Body Company, Martinsville, Va., has published a catalogue of 20 large and fine pages, fully illustrated, concerning the Fontaine Demountable Truck Bodies, which it manufactures for handling brick and block in bulk. The pictures are very clearly and accurately done, showing just how these bodies are employed in actual operation. Specifications are given in complete detail, with illustrations of parts.

**Fast Running Motor Truck Crawler.**

The Universal Crane Company, Cleveland, Ohio, has published Bulletin No. 44, which illustrates and fully describes the Universal Crane Motor Truck Crawler, of which it is remarked that as a truck it is fast and as a crawler it is sure-footed. It is stated that this machine is driven from job to job at a truck speed of from 14 to 16 miles per hour, traveling on eight full rubber-tired wheels, six of them large and two small. One picture shows it traveling on a smooth, hard road and another of the same size shows it traveling on soft ground. There are sundry other pictures giving details, all of them accompanied by descriptive matter.

**Galion Leaning-Wheel Graders.**

The Galion Iron Works and Manufacturing Company, Galion, Ohio, have published a completely and finely illustrated catalogue of 16 pages about the Galion Leaning Wheel E-Z Lift Graders, which are widely used in road building, especially for the ditching and banking of highways, their construction peculiarly fitting them for such exacting work. The method of connecting the wheels with the axle enables them to always maintain an upright position even if running on a sharp incline parallel to the road. This company also makes the Galion Fordson E-Z Lift Motor Graders, which are described in another booklet.

**INDUSTRIAL NEWS OF INTEREST**

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

**Guy E. Tripp.**

General Guy E. Tripp, chairman of the board of directors of the Westinghouse Electric and Manufacturing Company of East Pittsburgh, Pa., died Tuesday, June 14, in the New York Hospital, New York city, from complications following a surgical operation. He is survived by his widow, who was Miss Mary E. O'Connell of Salem, Mass., and three daughters, all of whom are married. General Tripp, who was 62 years of age, was a native of Wells, Maine, and in 1890, after several years spent in railroad work, became engaged in the electrical field with the Thomson-Houston Electric Company, in Boston, and in 1897 he went with the Stone & Webster organization of that city, rising to the post of vice-president. In 1912 he accepted the vice-presidency of the Westinghouse organization, which he held when he died. During the World War he rendered conspicuous service to his country as chief of the Production Division of the Ordnance Department, U. S. A. On entering the military service in January, 1918, he was given the rank of Major but within a year was made a Brigadier General and Assistant to the Chief of Ordnance. After the war he was awarded the Distinguished Service Medal, and he continued to give cooperation with the War Department in its efforts for industrial preparedness in the event of war. In 1923 and 1924, when in Japan on business for his company, he was decorated by the Emperor with the Second Class Order of The Sacred Treasure, the highest honor permitted there to a private citizen. He was a director in many corporations, especially those active in electrical work, and was recognized as a high authority in that line. He was also a member of numerous prominent clubs, societies and other organizations.

**Soapstone Quarry to be Sold.**

Elsewhere in this issue formal announcement is made of the forthcoming auction sale on July 9 of a fully equipped and electrified soapstone quarry in the Albemarle field of Albemarle County, Virginia, but it is stated that a private sale of the property can be made up to five days before the date named. Other particulars appear in the advertisement. T. Munford Boyd, North Fifth street, Charlottesville, Va., is trustee.

**General Electric Motor Installations.**

The General Electric Company, Schenectady, N. Y., has issued "Motor Dealer's Power Manual Section PM-7162," which relates to the mechanical installation of electric motors and control. The instructions given in this publication are very complete and the pictures accompanying them are all pertinent and valuable. There are 20 pages, all superior in their line.

**Georgia Floor Tile Has Wide Sale.**

The B. Mifflin Hood Brick Company of Atlanta, Ga., report that they have developed a floor tile market in every State in the Union and that they have run their floor tile plant in two shifts night and day continuously for over two and a half years without a shut down and are still doing so. They are marketing this high quality floor tile through the tile contractors who install it and they have used the trade names "Pyro-Tynt" and "Aragon." The firm furthermore report that they have reached 30 States on their roofing tile which is equally high quality with the floor tile. Other clay products manufactured by this company include fireplaces, face brick, acid rings and blocks, etc. etc.

## \$2,000,000 Ingraham Building Completed at Miami.

The new Ingraham Building erected in the heart of the business district of Miami, Fla., at a cost of approximately \$2,000,000, has recently been completed. The structure is owned and operated by the Model Land Company of St. Augustine, William R. Kenan, Jr., president, and is named for J. E. Ingraham, one of Florida's pioneers, especially in the construction of railroads, and said to be the first white man to cross the Everglades from east to west. He was associated with the late Henry M. Flagler in the latter's development of Florida's east coast.

Plans and specifications for the building were prepared by Schultze & Weaver and the general contract was let to the Turner Construction Company, both of New York. The contractors made a record in erection of the structure, beginning work on April 19, 1926, and completing it on March 20, 1927.



THE NEW INGRAHAM BUILDING.

It has a frontage of 170 feet on South Second avenue and 152 feet on Southeast First street, with an approximate height of 210 feet. The Fifteenth Century type of Italian architecture was employed for the building, as typified by the Pitti, Medici, Ricardl and Strozzi palaces in Florence. The entire surface of the street walls is of limestone, starting on a light granite base. Up to balconies, extending across each front at the second story level, the walls are heavily rusticated and above the balconies lighter rustications are carried the full height to an ornamented and overhanging cornice. This treatment, it is said, gives interest and texture to the wall surfaces and permits a play of light and shades, which, combined with a sparing use of ornamentation, produces a strong as well as dignified and simple appearance.

Exterior walls to the north and east and those surrounding the light court are of a light buff brick which blend with limestone quoins on each corner. Entrance to the building is

through an archway 25 feet high, flanked by two lower openings which lead into an open loggia or vestibule with marble floors and limestone walls and vaulted ceiling. The vestibule is separated from the street by ornamental iron gates and leads to the main lobby, finished in stone and marble with a flat coffered ceiling.

The building consists of a ground, mezzanine and 12 subdivided office floors, the ground floor having two shops on one street and six on the other. The typical floor layout is so arranged that a wing of the building, even an entire floor, may be had en suite, or one or more offices may be obtained without changing the layout. Offices vary in size and two toilets are located on each floor. Construction is of steel frame and reinforced concrete floor slabs, all columns and beams being fireproofed with concrete or hollow tile. The interior walls, both corridor and dividing partitions, are of clay tile. Corridors are seven feet wide with pink Tennessee marble floors and cream Alabama marble wainscot, the latter being carried to the ceiling in the elevator lobbies on each floor.

All corridor doors and trim are of drawn steel with baked mahogany enamel finish, glazed with prism plate glass, while all closet and toilet doors are of the same construction with solid drawn metal panels. Interior trim is finished in mahogany and all window frames and sash are of drawn metal, glazed on the two street fronts with double-strength clear glass and on the remaining elevations with polished wire plate glass. Windows are equipped with Venetian blinds with bronze guides and finished in baked cream enamel.

This structure is served by six high-speed elevators, five for passenger service and one for freight, and with a steam-heating plant of the vacuum type having low-pressure boilers in the basement fired by fuel oil. Hot and cold water is served lavatories. A vacuum cleaning system has been provided, also a paper chute, service driveway and other facilities.

The building was erected under the supervision of J. W. Hoffman, vice-president of the Model Land Company, with actual operations in charge of W. P. Jackson, superintendent of the Turner Construction Company. R. R. Gould represented the architects and P. P. Pierce the owners.

### Booklet of New Smyrna, Fla.

An unusually attractive and original booklet of 32 pages with colored front cover has been issued by the New Smyrna (Fla.) Chamber of Commerce, setting forth the advantages and beauties of New Smyrna and New Smyrna Beach. It was prepared by William B. Small, manager-secretary. Besides a great abundance of other pictures in black and white, there is a double-page illustration on pages 16 and 17 showing the New Smyrna harbor terminals as they will appear when extensive improvement plans are fulfilled. Bonds were voted for the proposed deep sea port last year. In the upper part of this picture is a vision of Ponce de Leon sailing into the Halifax River and a group of Indians on the shore awaiting his approach. The booklet is comprehensive in character and the illustrations represent views in the country about New Smyrna as well as in the city itself.

### To Build Residences on Signal Mountain.

Signal Mountain, Tenn.—Plans are being prepared by James Verhey of Chattanooga for a number of residences, to be erected here by the Williams Point Development Company of Chattanooga. The cost of the operation is estimated at \$250,000.

### A Mississippi Banker's Striking Address.

Valdosta, Georgia.

*Editor Manufacturers Record:*

I read with poignant interest the article you sent me on the prevalence of crime in the United States and its effect upon industry, which appeared in the MANUFACTURERS RECORD some time ago. It was a most startling and impressive presentation of the subject and should have had, and should yet have, the serious consideration of every business man and every lover of his country in America.

It set me to thinking on the menace involved in such a state of things, not to industry, banking and other forms of business alone, but also to the future life and character of the youth of America, considered from every point of view. It carried me back in thought to my cherished Alma Mater (Mississippi College) and the recent notable celebration of her Centennial. I was profoundly impressed by the week-long celebration in general and its survey of the work done and the influence exerted by this and kindred institutions in Mississippi and throughout the South for the education and equipment of youth for life and achievement in this land of age and opportunity.

But nothing in the exercises and addresses of the week impressed me more than the address delivered by Hon. B. Whitfield Griffith, president of the First National Bank of Vicksburg, at the dedication of the new gymnasium erected in grateful love by the alumni of the institution. I venture to cull from it some significant passages and to summarize others which will give some adequate idea of both the address itself and of the spirit of the occasion and the ruling ideas and ideals of education now prevailing in this and other schools in Mississippi and the new South. These ideas have found felicitous fruition in the magnificent gymnasium that was erected and dedicated as a token of the gratitude and love of her sons to their cherished Alma Mater.

"The board of trustees accepts the gift as a sacred trust," said Mr. Griffith. "The faculty welcomes it as a needed addition to the college equipment, and the Baptists of the State recognize it as a noble contribution to the cause of Christian education, especially to that branch of education to which it shall be devoted—the development of the finest type of physical manhood.

"From the first until now we have achieved great things in developing boys along mental and moral lines, but have done little or nothing for their physical development. The world needs not sickly specimens of the genus homo, but rather the 'vir'—strong, healthy, manly men!

The Great Teacher cared for the body. He was Healer as well as Teacher. The world today, as never before, demands symmetrically built, fully equipped men, and our reply to that demand is the department of physical culture and the gym, not to train the boy to become a prize fighter or a soldier nor to turn him out a trained athlete. He is never to be taught to buffet, except to buffet his own body and keep it in subjection to his spiritual nature; nor to be a soldier, except at the call of his country in a crisis or under the banner of the Prince of Peace. What this department aims at is to produce a clean, healthy, disease-resisting body—a fit home for a clear mind and a good conscience; in short, a fit place for the indwelling of the Holy Spirit. The by-products will hardly be less valuable. Steady nerves—a most useful asset in life's contests. Decision—there is no place in daily life, any more than on the field of sports, for the unstable man; he must decide, and decide quickly. Initiative—he is part of the whole, but must learn self-reliance and initiative; the captain can't always be at his elbow to give orders. Temperance—one can't be a glutton, a drunkard or a drug addlet and hold his place either on a college team or in life's battles. Team work—he must work with others and not for himself alone; he must be ready, as Kipling says, for 'the everlasting teamwork of every blooming soul.' Obedi-

ence—respect for law and obedience to constituted authority are essential traits sadly lacking in most American youth. Endurance—without it he inevitably fails; with it he wins. To suffer defeat after defeat, and yet come back. Fairness, courtesy, courage and many other qualities are instilled not from text-books, but by actual experiences. Everything that tends to the formation of excellency in character and the development of honorable and useful citizens is taught not by precept merely, but by example as well, in the department of physical culture, as well as in the college at large.

"We now devote this building to these ideals and uses and to the Glory of God, pledging ourselves as loving and loyal alumni never to allow this structure to be diverted from its high and holy mission."

My interest in such ideals and institutions abides and grows, Mr. Editor, because I recognize in them intrinsic merits, but also because I am persuaded by a somewhat extensive acquaintance with this and many other kindred institutions in the South that they are broadly and blessedly characteristic of the new day that has dawned in this section of our country and that they have in them both the promise and the potency of greater and better things for the future. Yours in sympathy with, and hope for, the great work you are doing for the South and for our whole country through the MANUFACTURERS RECORD.

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The Department of Commerce reports that during May 97 mechanical stokers, or a total boiler capacity of 43,601 horsepower, were sold, compared with 77 stokers, or 26,249 installed horsepower, in the previous month. The May installation included 16 mechanical stokers for fire tube boilers of 1650 horsepower and 81 mechanical stokers for water tube boilers of 41,951 horsepower.

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# FINANCIAL NEWS

## Bond Issues Proposed

**Ala., Birmingham**—Improvement—City Commr. receives bids July 12 for \$300,000, 4½% bonds.

**Ark., Blytheville**—City votes July 12 on \$65,000 hospital bonds, and on city hall bonds. Address City Clk.

**Ark., Fort Smith**—School—School Board, G. C. Hardin, Pres., receives bids July 9 for \$550,000 bonds.

**Fla., Bartow**—School—Polk County plans \$200,000 bond issue. Address County Comms.

**Fla., Chipley**—Courthouse—Washington County Comms. authorized issuance of \$200,000 bonds.

**Fla., Clermont**—Improvement—City, Isam Blackburn, Clk., receives bids July 5 for \$125,000 6% \$1000 denom. bonds.

**Fla., Cocoa**—Water Works—City, H. G. Brunson Clk., receives bids June 24 for \$115,000 6% \$1000 denom. bonds.

**Fla., Daytona Beach**—Road—Special Road and Bridge Dist., Chas. F. Burgman, Chmn., plans calling bond election; \$1,350,000 bonds authorized.

**Fla., DeLand**—Bridge—Volusia County Comms. contemplate bond election for toll-free bridge across Halifax River.

**Fla., Dunedin**—Street—City, R. N. Turner, Clk., rejected bids for \$286,000, 6%, \$1,000 denom. bonds. 6-2

**Fla., Fort Pierce**—School—Board of Public Instruction, Mrs. Edgar Lewis, Supt. and Sec., postponed sale of \$75,000 6% bonds; will be advertised later. 6-9

**Fla., Lake Wales**—Improvement—City plans \$100,000 bond issue. Address City Clk.

**Fla., Lakeland**—School—City votes July 5 on \$280,000 bonds. Address City Clk.

**Fla., Leesburg**—Improvement—City plans \$25,000 bond issue. Address City Clk.

**Fla., Miami**—Courthouse—Dade County Comms. receive bids July 6 for \$2,500,000, 5%, \$1,000 denom. bonds. 5-26

**Fla., Mulberry**—Improvement—City plans \$50,000 bond issue. Address City Clk.

**Fla., New Smyrna**—Indebtedness—City plans \$100,000 bond issue. Address City Clk.

**Fla., Sarasota**—Improvement—City, H. I. Southwick, Clk., receives bids June 27 for \$237,000 6% \$1000 denom. bonds; E. J. Bacon, Mayor.

**Fla., Tampa**—School—Hillsborough County Board of Public Instruction, W. D. F. Snipes, Sec., receives bids July 14 for \$25,000 6% \$1000 denom. Special Tax School Dist. No. 57 bonds.

**Fla., Vero Beach**—Indian River County votes June 28 on \$250,000 Sebastian Inlet bonds. Address County Comms.

**Fla., West Palm Beach**—City, J. J. McCreary, Mayor, defeated \$1,005,000 5% general bonds; \$100,000 5% \$1000 denom. equipment bonds. 6-9

**Ga., Americus**—Water and Fire Equipment—City, A. D. Gatewood, Jr. Clk.-Treas., receives bids July 8 for \$60,000 bonds. 6-9

**Ga., Claxton**—Improvement—City, C. E. De Loach, Clk., receives bids June 30 for \$15,000 5%, \$1000 denom. bonds.

**Ga., Colquitt**—Sewerage System—City, Dr. E. B. Baugh, Mayor, defeated \$25,000 bond issue. 6-2

**Ga., Hoboken**—Hoboken Consolidated School Dist. votes July 2 on \$22,000 bonds; A. M. McCool, member Bd. of Trustees. 6-16

**Ga., Thomasville**—Paving—City voted \$70,000 bonds. Address City Clk. 5-12

**Ky., Louisville**—Bridge—Louisville Bridge Comn. will call election in Nov. on bonds.

**La., Rowley**—School—Acadia Parish plans \$1,000,000 bond election. Address Parish Police Jury.

**La., New Orleans**—School—Orleans Parish School Board considering \$20,000,000 bond issue.

**Md., Annapolis**—Road—Anne Arundel County Comms., R. Harry Arnold, Clk., receive bids July 12 for \$300,000 4½% Series A, Public Road bonds.

**Md., Rock Hall**—Water Works—City, Jos. B. Davis, Mayor, receives bids June 25 for \$10,000 5%, \$500 denom. coupon bonds.

**Miss., Baldwyn**—School—Town votes soon on \$40,000 bonds. Address Town Clk.

**Miss., Caledonia**—School—Caledonia School

Dist. votes June 30 on \$20,000 bonds. Address Lowndes County Board of Supvrs. Columbus.

**Miss., Corinth**—School—J. A. Lowe, Mayor, and Board of Aldermen receive bids June 27 for \$150,000 bonds; R. A. Hall, City Clk. 6-9

**Miss., Ebenezer**—School—Holmen County Board of Supvrs. Lexington, will call election on \$10,000 bonds.

**Miss., Forest**—School—Scott County votes July 1 on \$18,000 bonds. Address Board of Supvrs.

**Miss., McComb**—Mayor and Board of Aldermen plan receiving bids for \$14,000 \$500 denom. bonds, for bridges, culverts, sewer and water mains extension.

**Miss., McComb**—School—Mars Hill Consolidated School Dist. voted \$15,000 bonds. Address Pres. Board of Trustees.

**Miss., Picayune**—School—City votes July 5 on \$75,000 bonds. Address Pres. School Board.

**Miss., Waynesboro**—School—Wayne County Board of Supvrs. will call election on \$20,000 6% Mulberry Consolidated School Dist. bonds.

**Miss., Vicksburg**—School—Warren County Board of Education considering \$70,000 bond issue.

**Missouri**—State Highway Comn. Jefferson City, will call meeting Oct. 12 to consider \$120,000,000 bond issue, toward completing highway system.

**Mo., Butterfield**—School—City voted bonds. Address City Clk.

**Mo., Independence**—Road—Jackson County Court, Harry S. Truman, Judge, considering calling election in Sept. on \$6,500,000 bonds.

**Mo., Macon**—Lake—City voted \$165,000 bonds for lake in Duck Creek basin. Address City Clk. 5-26

**Mo., Marshfield**—Road—Webster County votes July 16 on \$300,000 bonds. Address County Comms. 6-16

**N. C., Charlotte**—Sewer—City Comn. authorized sale of \$325,000 bonds; R. L. Brown, Comr. of Public Works. 6-9

**N. C., Fuquay**—Water, Sewer—Town receives bids July 1 for \$150,000, \$1000 denom., not to exceed 6%, bonds; Bruce Craven, Trinity, and L. Bruce Gunter, Fuquay, supervising sale.

**N. C., Hendersonville**—City Hall—City receives bids June 24 for bonds. Address City Clk.

**N. C., Hickory**—Water Works—City votes Sept. 6 on \$300,000 bonds. Address City Clk.

**N. C., High Point**—Municipal Improvement—City considering \$1,000,000 bond issue; \$600,000, water; \$400,000, sewer. Address City Clk.

**N. C., Raleigh**—City votes July 26 on \$75,000 bonds, to supplement \$125,000 held by North Carolina Agricultural Society, for State Fair. Lately noted bids July 12. 5-19

**N. C., Raleigh**—Funding—Wake County Comms. authorized issuance of \$300,000 bonds.

**N. C., Snow Hill**—Greene County Comms., H. L. Lassiter, Clk., plans selling \$40,000 notes.

**N. C., Wilson**—Funding—City Comms., Temple J. Batton, Clk., receives bids June 28 for \$100,000 \$1000 denom. not to exceed 5% bonds.

**N. C., Windsor**—Funding—Bertie County Comms., S. W. Kenney, Register of Deeds, receives bids June 30 for \$140,000 \$1000 denom. not to exceed 6% bonds.

**Okl., Altus**—Road—Bridge—Jackson County votes July 19 on \$600,000 bonds. Address County Comms.

**Okl., Henrileta**—School—City votes July 5 on \$60,000 5% bonds. Address City Clk.

**Okl., Waurika**—Road—Jefferson County votes July 12 on \$600,000 bonds. Address County Comms.

**S. C., Charleston**—Highway—Mid-Coastal Dist. Highway Comn., Wm. Burguson, Sec., 56 Broad St., receives bids June 27 for \$675,000 bonds; J. M. Robertson, Chmn., Peoples Building. 6-9

**S. C., Greenville**—City, George Wells, Clk., plans voting July 12 on \$275,000 bonds: \$250,000, paving and bridge; \$25,000, nurses' home at City Hospital. 9-16

**S. C., Orangeburg**—Orangeburg County Highway Comn., H. E. Moore, Clk., will issue \$389,000 bonds for indebtedness, roads and bridges.

**S. C., Orangeburg**—Highway—Orangeburg County Highway Comn., H. E. Moore, Clk.,

receives bids June 28 for \$200,000, \$1000 denom. not to exceed 5% bonds.

**Tenn., Memphis**—Shelby County votes June 30 on \$2,100,000 bonds: \$1,500,000, highway; \$500,000, county school; \$100,000, Oakville Memorial Sanitarium. 6-2 and 6-9

**Tenn., Nashville**—Bridge—State Funding Board, Frank S. Hall, Commr. of Finance and Taxation, receives bids July 1 for \$1,000,000 bonds. 6-2

**Tenn., Nashville**—University—State Funding Board, Frank S. Hall, Commr. of Finance and Taxation, may receive bids July 15 for \$500,000 4½% bonds. 5-19

**Tenn., North Chattanooga**—Branch, Chattanooga—Sewer—City voted \$80,000 bonds; W. S. Beck, Mayor. 5-19

**Tenn., Union City**—Road—Obion County voted \$300,000 bonds: \$100,000, indebtedness; \$200,000, roads. 4-21

**Tenn., Whiteville**—Water Works—City voted \$20,000 bonds. Address City Clk.

**Tex., Alamo Heights**, San Antonio—Municipal Improvement—City, R. E. O'Grady, Mayor, voted \$350,000 bonds, \$180,000, paving; \$120,000, sewer; \$50,000, fire station and equipment; W. H. Hume, City Sec., 850 Estes St., San Antonio. 5-19

**Tex., Alvin**—School—Board of Trustees of Alvin School Dist., will call election July 11, on \$60,000 bonds.

**Tex., Austin**—City, Adam R. Johnson, Mgr., considering \$2,000,000 bond issue for various improvements, including paving, sewers, schools, etc.

**Tex., Denton**—Refund, Road—Denton County votes Aug. 1 on \$1,881,000 bonds. Address County Clk.

**Tex., Dilley**—Paving—City, Roy Busby, Mayor, voted \$30,000 bonds. 5-26

**Tex., Fort Worth**—School—Grace Chapel Common School will vote on \$15,000 bonds. Address Tarrant County Comms.

**Tex., Fort Worth**—City, O. E. Carr, Mgr., considering bond election in Oct. for purchasing land for park purposes; auditorium, viaduct; site and erection library.

**Tex., Henrietta**—School—Henrietta Independent School Dist. votes July 1 on \$60,000 bonds; A. V. Slagle, Sec. Bd. of Education. 6-9

**Tex., Lubbock**—Road—Lubbock County Comms. may call election on \$1,000,000 bonds.

**Tex., Olmito**—School—City votes June 28 on \$52,000 bonds. Address City Clk. 5-19

**Tex., Palestine**—Road—Anderson County, E. H. Shelton, County Judge, receives bids June 30 for \$500,000 5%, \$1000 denom. Road Dist. No. 8 bonds.

**Tex., Pampa**—Municipal Improvement—City plans voting about middle of July on bonds, for water and sewer. Address City Clk.

**Tex., Perryton**—Sewer—City voted \$70,000 bonds; A. B. McAfee, Sec. 5-26

**Tex., Plemons**—Road—Hutchinson County Comms. voted \$1,250,000 bonds. Address County Comms. 6-2

**Tex., Port Arthur**—School—School Board considering \$500,000 bond issue.

**Tex., San Angelo**—Courthouse—Tom Green County voted \$294,000, 5% bonds; J. T. Mathison, County Judge. 5-26

**Tex., San Antonio**—Road—Bexar County Comms. Court, Augustus McCloskey, County Judge, plan issuing \$200,000 5½% bonds.

**Tex., San Angelo**—Courthouse—Tom Green County Comms. Court, J. T. Mathison, County Judge, receive bids July 1 for \$294,000 5% bonds. 5-26

**Tex., Seguin**—School—Seguin Independent School Dist. voted \$100,000 bonds. Address Pres. Board of Trustees.

**Tex., Texarkana**—Municipal Improvement—City voted \$250,000 bonds: \$100,000, street; \$150,000, sewer. Address The Mayor. 5-12

**Tex., Uvalde**—School—City voted \$100,000 bonds. Address City Clk.

**Tex., Valley View**—School—Valley View School Dist. voted \$20,000 bonds; Burl Bryant, Cook County Supt. of Public Instruction, Gainesville. 6-2

**Tex., Vernon**—School—City Comn., may call election on \$160,000 bonds.

**Tex., Waco**—County Tubercular Hospital—McLennan County Comms. may call election on \$50,000 bonds.

**Tex., Wichita Falls**—School—Board of Ed.

(Continued on page 122)

## Do you know that—

**68%** of the American cotton used last year in all the mills of the United States was consumed by Southern mills?

**57%** of the country's active spindles are in the South?

**38%** of the country's increase in the volume of its manufacturing (1923-1925) was produced by plants in the South?

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## FINANCIAL NEWS

(Continued from page 120)

ucation, W. W. Brown, Sec., receives bids June 28 for \$250,000 4% \$1000 denom. Wichita Falls Independent School Dist. bonds. 6-16

Va., Bristol—Water Works—City, P. A. Goodwin, Mayor, may vote June 28 on \$890,000 bonds. 6-9

Va., Halifax—Road Indebtedness—Halifax County Board of Supvrs. authorized \$140,749 4% bond issue. 6-19

Va., Richmond—Street—City Council, Streets Committee, considering \$500,000 bond issue to develop Shockoe Valley; R. Keith Compton, Director of Public Works. 9-16

Va., Victoria—Water Works, Sewer—Town, G. R. Marshall, Clk., receives bids June 28 for \$190,000 3½% bonds. 6-2

W. Va., Charleston—Road, Bridge—Kanawha County, Elk Dist., considering \$300,000 bond issue. Address County Commrs. 6-2

W. Va., Grafton—Filtration Plant—City votes July 12 on \$140,000 bonds. Address City Clk. 5-5

W. Va., New Martinsville—Road—Wetzel County, Green Road Dist., voted \$185,000 bonds; G. A. Harman, Clk. 6-2

W. Va., New Martinsville—Road—Wetzel County, Church Magisterial Dist., votes July 9 on \$140,000 bonds. Address County Commrs. 6-2

### Bond Issues Sold

Alabama—Road, Bridge—State Bond Comm., Montgomery, sold \$2,000,000, 4% bonds to syndicate composed of First National Bank, Chase Securities Corp., Barr Brothers & Co., Kountz Brothers, Eldredge & Co., Redmond & Co., Phelps, Fenn & Co., Brandon & Wadell, all New York; Caldwell & Co., Nashville, Tenn., at 100.56.

Ala., Opelika—Improvement—City, H. K. Dickinson, Mayor, sold \$23,000, bonds to Ward, Sterne Co., Birmingham, at 101, and accrued interest.

Fla., Sanford—School—Seminole County Board of Public Instruction, Fred T. Williams, Chmn., sold \$50,000 6% \$1000 denom. Longwood Special Tax School Dist. No. 2 bonds, to Brown-Crummer Co., Wichita, Kansas, at \$51,000; \$30,000 6% \$1000 denom. Oviedo Special Tax School Dist. No. 3 bonds, to Stranahan, Harris & Oatis, Inc., Toledo, Ohio, at \$30,075. 6-9

Fla., Tampa—School—Hillsborough County Board of Public Instruction, W. D. F. Snipes, Sec., sold \$25,000 6% Special Tax School Dist. No. 3 bonds to Exchange National Bank and First Savings and Trust Co., at \$23,750 and accrued interest; \$42,000 6% Special Tax School Dist. No. 11 bonds to Citizens Bank and Trust Co., at \$42,386 and accrued interest. 5-26

Ga., Atlanta—Viaduct, City Hall—City, B. Graham West, Comptroller, sold \$1,968,000 4½% bonds to Old Colony Corp., New York, John W. Dickey, Augusta, and Georgia Trust Co., Atlanta, at \$2,052,624. 6-2

La., Amite—Road—Tangipahoa Parish Police Jury, F. C. Weist, Sec., sold \$45,000 5¾% bonds to Whitney-Central Trust and Savings Bank, New Orleans, at par, accrued interest and premium of \$700. 6-2

La., Lake Charles—Docks, Port Facilities—Lake Charles Harbor and Terminal Dist. Commrs., H. J. Luhn, Director of Port, sold \$500,000 5% \$1000 denom. bonds to Sutherland, Barry & Co., New Orleans, at par, accrued interest and premium of \$8350. 5-19

Md., Baltimore—Commrs. of Finance, J. Archer Bell, City Register, sold \$11,847,000 securities at 98.34995 and accrued interest to a syndicate composed of Bankers Trust Co., National City Co., Redmond & Co., E. H. Rollings & Son, Kissel, Kinnicutt & Co., Old Colony Corp., all New York; Guardian Detroit Co., First National Co., both Detroit; Union Trust Co., Baltimore Trust Co., Owen Daly & Co., all Baltimore; and Northern Trust Co., Chicago; \$8,095,000, coupon \$3,752,000, registered stock.

Md., Frederick—School—Frederick County Commrs. sold \$120,000 bonds to Robert Garrett & Sons, Baltimore, 101-219 per 100. 6-2

Miss., Kosciusko—Sewer—City sold \$90,000 5% bonds to Merchants & Farmers Bank at par. 5-26

Miss., Oxford—Paving—City sold \$110,000 5¼% bonds to Bank of Commerce & Trust Co., Memphis, at premium of \$190.

Miss., Prentiss—School—G. L. Martin, Supt. Board of Education, sold \$4,500 bonds to Bank of Blountville, Prentiss. 6-9

Miss., Starkville—Mayor and Board of Aldermen sold to First National Bank, Memphis, \$25,000 school and \$45,000 street 5½% bonds.

N. C., Macksville—Funding—Davie County Commrs. sold \$79,000 5% funding bonds to Drake-Jones Co., Chicago, Ill., at 104.88.

N. C., Winston-Salem—Municipal Improvement—City, Thomas Barber, Mayor, sold \$1,425,000 bonds to syndicate composed of Illinois Merchants Trust Co., First Trust & Savings Bank, Chicago, Ill.; First National Co., St. Louis, and First National Co., Detroit, at 100.03: \$1,075,000, 4½%, street drainage and bridge; \$350,000, 4½% water. 9-16

Okla., Purcell—Improvement—City sold \$80,000 bonds to John H. Perry at par. 5-5

Tenn., Knoxville—School—City, Charlton Karns, Mgr., sold \$850,000, 4½%, \$1,000 denom. bonds to Harris Trust & Savings Bank, Illinois Merchants Trust Co., E. H. Rollins & Son, all Chicago, and American National Co., Nashville, at \$864,561.

Tenn., Millington—Water Works—City, W. S. Hornish, Mayor, sold \$10,000 6% bonds to Little, Wooten & Co., Jackson, at par and accrued interest. 6-9

Tenn., Murfreesboro—Highway—Caldwell & Co., Nashville, purchased \$30,000 State Aid Highway bonds.

Tex., Austin—School—State Board of Education purchased \$86,400 bonds; S. M. N. Marrs, State Supt. of Public Instruction.

Tex., Brownsville—Road—Cameron County, Oscar C. Dancy, County Judge, sold \$1,000,000 5%, \$1000 denom. bonds to American National Co., Oklahoma City, at par, accrued interest and premium of \$10,780. 6-9

Tex., Columbus—Water Works—City, O. A. Zumwalt, Mayor, sold \$55,000 bonds to First State Bank, par, accrued interest. 4-21

Tex., Houston—Water Works—City, O. D. Holcombe, Mayor, sold \$500,000 5% bonds to Halsey, Stuart & Co., Chicago, Ill. 4-28

Tex., San Antonio—Street Widening—City, John W. Tobin, Mayor, will sell \$1,000,000 benefit certificates to J. E. Jarratt & Co., on basis of 98.

Tex., Stanton—Water Works—City sold \$45,000 bonds to J. L. Arlitt, Austin, at \$47,340.

Va., Portsmouth—Road, Bridge—Norfolk County Board of Supvrs., G. Taylor Gwathmey, Clk., sold \$250,000, 4¾% bonds to Braun, Bosworth & Co., Toledo, Ohio, at \$250,760. 5-26

Va., Richmond—Highway—Board of Sinking Fund Commrs., Harry F. Byrd, Gov.; John M. Purcell, State Treas., sold \$950,000 4½% certificates to American National Bank, at 100.91, or \$958,645. 5-26

West Virginia—Bridge—Mackubin, Goodrich & Co., Baltimore, Md., and McLaughlin, MacAfee & Co., Pittsburgh, Pa., purchased \$700,000 West Virginia-Ohio River Bridge Co. first mortgage 6½% sinking fund bonds.

West Virginia—State Sinking Fund Comm., Columbia, sold following bonds: City of Fairmont, \$300,000 4½% bonds to Braun-Bosworth & Co., Toledo, Ohio, at premium of \$1556; Williamson, \$185,000 5% bonds to A. C. Allyn & Co., Chicago, Ill., premium of \$6818; Moundsville Independent School Dist., \$149,000 5% bonds, M. S. Hill & Co., Cincinnati, Ohio, premium of \$4755; road bonds: Eliz. Dist., \$106,000 5% bonds, Davies-Bertram & Co., Cincinnati, Ohio, premium of \$117; Boone County—Crook Dist., \$250,000 5% bonds, A. C. Allyn & Co., premium of \$1276; Ritchie County—Murphy Dist., \$235,000 5% bonds, A. C. Allyn & Co., premium of \$1160; Logan Dist., \$250,000 5% bonds, Braun-Bosworth & Co.

W. Va., New Martinsville—Road—State Sinking Fund, Charleston, will purchase \$185,000 5% Green Road Dist. Bonds. 6-2

### Building and Loan Associations

N. C., Durham—Security Building & Loan Assn., capital \$100,000, chartered; George Watts Hill, 806 S. Duke St., Alphonsus Cobb, 506 Morehead Ave., Claude Currie.

### New Financial Corporations

Fla., Palm Beach—F. A. Shaughnessy, Pres., John F. Harris and Edward Shearson, directors of First National Bank to be chartered with \$100,000 capital.

La., New Orleans—Equity Finance, Inc., capital \$300,000, chartered; Harold S. Weil, Sec.-Treas.

Tex., Dallas—I. Reinhardt & Sons, American Exchange Bank Bldg., capital \$50,000, in-

corporated; S. Louis Reinhardt, Harry A. Fisher, 1037 N. Madison St.; Andre A. Blum.

Tex., Dallas—Fidelity Investment Co., capital \$10,000, incorporated; W. I. Compere, Central Bank Bldg.; George L. Croxford, S. W. Life Bldg.; J. B. Quinn.

Tex., Houston—Boyer Investment Corp., capital \$10,000, incorporated; J. Frank, R. Y., Sr., and A. E. Boyer, Ave. B.

Bank of Tennessee, Rogers Caldwell, Pres., Nashville, Tenn., increased capital, \$200,000 to \$500,000.

Merchants and Farmers Bank, James M. Jones, Pres., Boston, Ga., acquired assets of Bank of Boston, S. L. Rodgers, Pres. J. M. Jones, Pres.; J. A. Mallette, V.-P.; J. Russell Carter, Cashier, of combined banks.

Republic Bank and Trust Co. of Austin, Austin, Tex., and Citizens State Bank, combined with \$3,500,000 resources; Eldred McKinnon, Pres.; Leo Kuhn, Cashier.

Texas Plains Building & Loan Assn., J. M. Reed, Pres., 107 W. 6th St., Amarillo, Tex., plans increasing capital, \$1,000,000 to \$10,000,000.

### A Book About Pile Drivers.

Bulletin 37 of the McKiernan-Terry Drill Company, 15 Park Row, New York city, with works at Dover, N. J., gives full particulars concerning the McKiernan-Terry double-acting pile hammers, which are used for all kinds of pile driving and pile pulling, from the heaviest to the lightest. The descriptive matter is comprehensive and the illustrations are fine and full of detail, affording complete understanding of the wide range of work which these hammers are doing in various places in this country, as well as in foreign lands. There are nearly 100 pages in the book, which will be appreciated by engineers, architects, contractors, builders and others whose activities necessitate pile driving.

### A Study of Electric Rates and Loads.

A booklet of 32 pages has been published by the Sangamo Electric Company, Springfield, Ill., with the title "Rates and Load Building." It is described as "a brief account of the various electric service rate systems, supplemented by discussions of some of the important factors involved in scientific load building." There are numerous pictures, but one of the most interesting is based on a photograph of a model of an actual load curve, prepared by the Southern California Edison Company. This model was made up by plotting and cutting out of cardboard the total load profile for every day in a year and stacking them one against the other to make up the complete calendar. The book is printed in large type on heavy calendered paper, which brings out the pictures in detail.

### Chrome Iron to Resist Corrosion.

A booklet entitled "The Uses and Corrosion-Resistant Properties of Chrome Iron" has been published by the Downingtown Iron Works of Downingtown, Pa., manufacturers of tanks, boilers, steel plate, etc. It was written by T. Holland Nelson, consulting metallurgist of the company's works. Among other things it says that the discovery of stainless steel and the later production of rustless chromium iron has placed before structural and chemical engineers a material which without protective coating or other preparation, is able to withstand all atmospheric conditions and, in addition, many of the acid and alkaline corrosion problems. A picture shows one of 13 "Acidite" tanks for a large chrome iron installation. There are many other illustrations.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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Our Corporation Department will be glad to discuss with you fully whatever problems of financing you may care to lay before it.

**CALDWELL & COMPANY**

SOUTHERN SECURITIES

400 Union Street Nashville, Tenn.

Offices in Principal Cities

### To Promote Agricultural Diversification and Dairying in West Tennessee.

The Chamber of Commerce of Union City, Tenn., is organizing a party of 125 bankers, farmers, county agents and others interested in the development of West Tennessee to make a tour of Illinois, Wisconsin and Missouri to study agricultural and dairying conditions.

It is said there will be representatives of more than 20 counties of the western part of the State. The trip will be in charge of J. R. Manser, secretary of the Chamber of Commerce. A special train of five Pullman and two baggage cars will leave Union City on August 7. The tour will extend over a period of 10 days and the following stops will be made: Centralia, Ill.; Effingham, Ill.; Champaign, Ill.; Chicago, Ill.; Waukesha, Wis.; Milwaukee, Wis.; Sheboygan, Wis.; Plymouth, Wis.; Fond du Lac, Wis.; Watertown, Wis.; Freeport, Ill., and St. Louis, Mo. At each stop the farms in the section will be visited. Some breeding stock will be purchased later for the different sections represented.

Obion County, of which Union City is county seat, is largely devoted to livestock raising, while the majority of the other counties represented are cotton sections. It is hoped the trip will encourage diversification of farm products and in particular promote dairying. The plan is to have cows, hogs and chickens on every farm in West Tennessee.

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American co-operative associations engaged in marketing poultry or eggs, or both, have a total membership exceeding 50,000 and do an annual business estimated at more than \$40,000,000. Records of over 70 such associations are filed in the United States Department of Agriculture.

### Farm Facts of Mobile County.

It is rather unusual for a commercial organization to issue a booklet devoted to the agricultural development of its surrounding territory. However, the Mobile Chamber of Commerce has recently compiled and is distributing a most interesting little book giving first-hand information concerning the agricultural development and possibilities of Mobile county, Alabama. There are many striking illustrations of farm and crop scenes and facilities for handling agricultural products in the Mobile territory.

Mobile is introduced as the principal market for Southern Alabama farm output, in which some of the highlights concerning the city of Mobile are briefly given. Mobile is the second largest city in Alabama, with a metropolitan population of 100,000. The outstanding facts about education, health conditions, transportation and other facilities are shown in the book. Detailed information in regard to Mobile county, the variety and volume of crops produced, types of soil, land prices, taxes, etc., is backed by illustrations of farm crop, dairy and poultry scenes which aid one to visualize the extent of the agricultural development of the county.

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### De Land, Fla., in Print.

Bearing the title "De Land, Florida," a finely illustrated folder with colored pictures on the cover, has been issued by the De Land Commercial Club. The illustrations within are done in black and white in superior style and there is complete descriptive material concerning De Land and its beautiful environment.

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### Building and Loan Convention.

According to the program for the thirty-fifth annual meeting of the United States League of Local Building and Loan Associations, the sessions will be held at Asheville, N. C., on July 19, 20, 21 and 22, with the special train from Oklahoma City stopping at Muscle Shoals en route. The headquarters of the League will be at the Battery Park Hotel, with meetings also in the Asheville Auditorium.

Proceedings will open on July 19 with a breakfast conference on publicity, 7:15 to 8:30 o'clock, to be followed by a general session at the Auditorium. President George E. McKinnis of Shawnee, Okla., will call the convention to order, the visitors will be welcomed by the State and the city and the reports of various officers will be presented.

Among the topics to be discussed at the convention will be "Uniform Mechanics Lien Law," "Zoning Laws," "Joint and Survivor Accounts," "Selling Building and Loan Loans to the Public," "Analyzing the Earning Capacity of a Building and Loan Association" and "Controlling Costs of Operation." The Institute Cup contest will be held on the evening of July 19. Many papers on many subjects will be read and discussed.

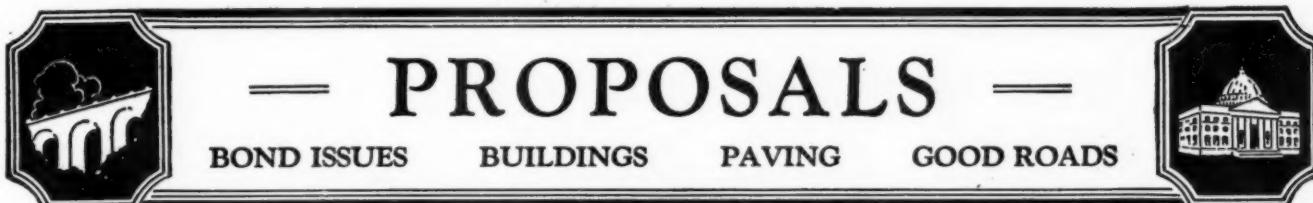
The South is represented in the list of officials by Mr. McKinnis as president and the following members of the executive committee: E. L. Norment, Birmingham; J. H. Bilheimer, Little Rock, Ark.; S. R. Shearston, Miami; J. W. Vaughan, Cartersville, Ga.; Thomas A. Barker, Louisville, Ky.; Philip Lieber, Shreveport, La.; R. J. Richardson, St.

Louis; G. R. Wootten, Hickory, N. C.; J. R. Jones, Oklahoma City; E. O. Black, Columbia, S. C.; C. E. Barbour, Memphis; I. Friedlander, Houston; Max Pincus, Norfolk, and Joseph H. Reass, Wheeling, W. Va.

### Lumber Company Planning Townsite and Development of Agriculture on Its Cut-Over Timber Lands.

Following the building of the Mississippi and Skuna Valley Railroad, serving Yalobusha and Calhoun counties, in Mississippi, by the E. L. Bruce Lumber Company, Little Rock, Ark., that organization is now establishing a modern town site at Bruce, Miss. The railroad extends through 35,000 acres of the company's timber lands and it is the intention to build a sawmill with a capacity of 75,000 feet of hardwood per day and develop a modern town site around the mill at Bruce. Robert G. Bruce, president of the company states that in addition to developing a timber industry they will foster the development of agriculture throughout that section.

The territory surrounding the proposed town site is rich in agricultural possibilities and the lumber company will endeavor to create a diversified farming region. Agricultural experts will be employed to lay out a plan for the cultivation of the company's cleared lands and these lands will be improved and sold as farm tracts. The plans also are said to include the extension of the railroad beyond the town of Bruce in an effort to develop more territory.



Bids close July 15, 1927.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 15, 1927. SEALED BIDS will be opened in this office at 3 P. M. July 15, 1927, for furnishing and installing an automatic telephone system in the National Home for Lepers, Carville, La. Drawings and specifications may be obtained from the Custodian, National Home for Lepers, Carville, La., or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close July 14, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 14, 1927. SEALED PROPOSALS will be opened in this office at 3 P. M. July 14, 1927, for furnishing all labor and materials and performing all work for the installation of a parcel post lift in the U. S. Postoffice at Montclair, N. J. Drawings and specifications may be obtained from the Custodian, U. S. Postoffice in Montclair, N. J., or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close July 8, 1927.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., JUNE 7, 1927. Sealed Proposals will be opened in this office at 3 P. M. July 8, 1927, for removing the present water supply piping and furnishing and installing new brass water supply piping at the United States Post-office and Courthouse, Raleigh, N. C. Drawings and specifications may be obtained from the Custodian, U. S. Postoffice, Raleigh, N. C., or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD: Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close July 12, 1927.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 9, 1927. SEALED BIDS will be opened in this office at 3 P. M. July 12, 1927, for removing old water piping and installing new water piping, plumbing fixtures, etc., in the U. S. Postoffice and Courthouse, Jacksonville, Fla. Drawings and specifications may be obtained from the Custodian, U. S. P. O., Jacksonville, Fla., or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close July 7, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 6, 1927. SEALED PROPOSALS will be opened in this office at 3 P. M. July 7, 1927, for removing old water piping and installing new water piping, etc., in the U. S. Postoffice and Courthouse, Greenville, S. C. Drawings and specifications may be obtained from the Custodian, U. S. Postoffice and Courthouse, Greenville, S. C., or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 28, 1927.

#### Bridges

DEPARTMENT OF PUBLIC WORKS

STATE OF MARYLAND

STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building three bridges as follows:

Allegany County, Cont. A-46—One single, 22-foot span, reinforced concrete slab bridge, with a 17-foot 0-inch clear roadway and two (2) 5-foot 0-inch sidewalks on the road from Frostburg to Westernport, in Midland.

Washington County, Cont. W-48—One double-span reinforced concrete arch bridge, each span 55 feet 6 inches, with a 24-foot 0-inch clear roadway over Antietam Creek on the Boonsboro-Sharpsburg Road, together with necessary fill, etc.

Cecil County, Cont. Ce-56—One single-span steel girder bridge on concrete abutments over the P. B. & W. R. R. at Heislers Road north of Charlestown.

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 28th day of June, 1927, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, upon thereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 13th day of June, 1927.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

## PROPOSALS

## Manufacturers Record

Bids close July 1, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 9, 1927. SEALED BIDS will be opened in this office at 3 P. M. July 1, 1927, for furnishing and installing all labor and material necessary for a new heating system, etc., in the U. S. Postoffice and Customhouse at Galveston, Texas. Drawings and specifications may be obtained from the Custodian of the building at Galveston, Texas, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close July 18, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 20, 1927. SEALED BIDS will be opened in this office at 3 P. M. July 18, 1927, for the extension of mailing vestibule and driveway at United States Postoffice Building, Charlotte, N. C. Drawings and specifications may be obtained from the Custodian of the building or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close July 29, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 20, 1927. SEALED BIDS in duplicate will be received until 3 P. M. July 29, 1927, and then publicly opened, for furnishing all labor and materials and performing all work for the construction complete (except elevator) of the United States Postoffice and Courthouse at Wilson, N. C. Drawings and specifications may be obtained from the Custodian of the site at Wilson, N. C., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close July 5, 1927.

### \$1,000,000 5% Public Improvement Bonds

Mobile, Ala.

The City of Mobile, Alabama, Public Improvement bonds, Series AB, dated June 1, 1927, maturing ten years after date on June 1, 1937, with interest at 5% per annum, payable semi-annually and payable both as to principal and interest at the American Exchange Irving Trust Company, New York, New York, and being 1000 bonds, each for \$1000, are hereby offered for sale.

Said bonds are subject to retirement in their numerical order, commencing with bond No. 1, at any interest period, commencing with June 1, 1928, upon payment of principal and premium of 1 1/4%, provided that no more than 100 bonds shall be retired during any 12-month period, commencing with June 1, 1928.

SEALED BIDS for said bonds shall be addressed to S. H. Hendrix, Esq., City Clerk, Mobile, Alabama, and will be received up to and including Tuesday,

JULY 5, 1927.

at 12 o'clock noon thereof, at which hour and date said bids will be publicly opened in the Council Chamber in the City Hall, Mobile, Alabama.

Each bid must be accompanied by a certified check for not less than \$10,000, payable to the City of Mobile, to be forfeited to said city if the bid accompanying same is not kept in good faith in the event the bonds are awarded to said bid. Each check is to be returned if bid accompanying same is not accepted.

No bid shall be for less than the face value of said bonds and accrued interest thereon up to the date of delivery. No bid shall contain any conditions as to the bank or place where the proceeds from the sale of said bonds shall or may be deposited.

All proceedings had to date in connection with said bonds have been approved as to legality and validity by Messrs. Thomson, Wood & Hoffman, Attorneys and Counsellors at Law, New York City, and the Commission will furnish to the successful bidder, free of expense, the opinion of said attorneys approving the legality and validity of said bonds.

The said bonds, with the opinion of said attorneys approving same, will be delivered to the successful bidder or bidders on the 15th day of July, 1927, unless a later date shall be mutually agreed upon.

The right is reserved by the City of Mobile and the Board of Commissioners thereof to reject any and all bids.

CITY OF MOBILE, ALABAMA.

By HARRY T. HARTWELL,

Mayor.

Bids close July 1, 1927.

### Caddo Parish Highways

Shreveport, La., June 3, 1927.

Sealed proposals will be received by the Police Jury of Caddo Parish, La., at Room 621 Slattery Building, Shreveport, La., until 10 o'clock A. M. July 1, 1927, for the construction of Bridges and Structures, Forbing Caspiana Road.

#### APPROXIMATE QUANTITIES.

Reinforcing Steel, 48,576 pounds.

Creosoted Timber Trestle Piling, 1560 lin. ft.

Untreated Lumber, 23 M. B. M.

Creosoted Lumber, 9 M. B. M.

Rolled Beams (Trestle Stringers), 68,259 pounds.

Concrete (Class A), 368 cu. yds.

Culvert Pipe (placing only), 1700 lin. ft.

Rip Rap, 60 cu. yds.

Bridge Rail (Concrete), 38 lin. ft.

Also separate bids on 71,000 cu. yds. of earth work.

Plans and specifications may be obtained at the office of the undersigned upon deposit of \$3.00.

The right is reserved to reject any or all bids and to accept any bid.

J. T. BULLEN, Parish Engineer,  
Room 618 Slattery Building,  
Shreveport, La.

Bids close July 6, 1927.

### Street Improvements

Jackson, Tenn.

Sealed proposals will be received by the undersigned until 10 o'clock A. M. on Wednesday, July 6, 1927, for the improvement of certain streets in the City of Jackson, Tennessee, in accordance with plans, profiles and specifications now on file in the office of the City Commission, approximating 27,000 square yards of 6-inch plain one-course concrete pavement, 14,500 linear feet of combined concrete curb and gutter, 1800 linear feet of storm sewers, with necessary inlets and manholes. Each bid must be accompanied by a certified check or bidder's bond in the amount of 10% of the cost of the work, computed on the basis of the bid submitted. The right is reserved to reject any or all bids. At 10 o'clock A. M. on the said date all bids will be opened and publicly read.

J. G. NEUDORFER,  
Commissioner of Public Utilities.  
E. R. DIKE, City Engineer.

Bids close June 28, 1927.

### Highway Construction

DEPARTMENT OF PUBLIC WORKS  
STATE OF MARYLAND  
STATE ROADS COMMISSION  
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building four sections of State Highway as follows. Baltimore County, Cont. B-85—One section of State Highway along the Jarrettsville Road from end of existing concrete to Jacksonville, a distance of 3.43 miles. (Concrete.)

Harford County, Cont. H-52—One section of State Highway from Emmorton toward Van Bibber for a distance of 1.0 mile. (Macadam.)

Prince George's County, Cont. P-64—One section of State Highway from Laurel toward Bowie for a distance of 1.74 miles. (Gravel.)

Dorchester County, Cont. D-45—One section of State Highway between Rhodesdale and Vienna for a distance of 2.48 miles. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 28th day of June, 1927, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1,000, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 10th day of June, 1927.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close July 1, 1927.

### Caddo Parish Bridge

Shreveport, La., June 3, 1927.

Sealed proposals will be received by the Police Jury of Caddo Parish, La., at Room 621 Slattery Building, Shreveport, La., until 10 o'clock A. M. July 1, 1927, for the construction of Bridges and Structures, Forbing Caspiana Road.

#### APPROXIMATE QUANTITIES.

Concrete (Class A), 147 cu. yds.

Concrete (Class D), 52 cu. yds.

Reinforcing Steel, 26,420 pounds.

Untreated Foundation Piling, 900 lin. ft.

Treated Piling (Approach Trestle), 2740 lin. ft.

Untreated Lumber, 41 M. B. M.

Treated Lumber, 16 M. B. M.

Wet Excavation, 313 cu. yds.

Rolled Beams (Trestle Stringers), 121,349 pounds.

Structural Steel (110-ft. Span), 114,900 pounds.

Separate bids also on 29,000 cu. yds. earth work in approaches.

Plans and specifications may be obtained at the office of the undersigned upon deposit of \$3.00.

The right is reserved to reject any or all bids and to accept any bid.

J. T. BULLEN, Parish Engineer,  
Room 618 Slattery Building,  
Shreveport, La.

Bids close July 5, 1927.

### Street Improvements and Sewers

Daytona Beach, Fla.

Sealed bids will be received by the City Manager of the City of Daytona Beach, Florida, Tuesday, July 5, 1927, at his office in the City Building up to one (1) o'clock P. M., Eastern Standard Time, and opened at two (2) o'clock P. M., Eastern Standard Time, in the presence of the City Manager, City Clerk and the City Engineer, for the furnishing of all Labor and Materials for the Grading, Draining, Curbing, Guttering, Paving, constructing necessary Retaining Wall, Sewers, Sewer Laterals and connections on North Beach street from Fairview avenue to the North City Limits in the following approximate quantities:

34,170 Sq. Yds. Sub-Grading.  
21,615 Sq. Yds. 6-inch Concrete Base.  
21,715 Sq. Yds. Asphalt Wearing Surface.  
7,494 Lin. Ft. Combined Curb and Gutter.

5,520 Lin. Ft. 6-inch House Sewer.  
5,520 Lin. Ft. 6-inch House Drain.  
1,735 Lin. Ft. 8-inch Sanitary Sewer.  
2,455 Lin. Ft. 10-inch Sanitary Sewer.

1,560 Lin. Ft. 10-inch C. I. Force Main.  
1,282 Lin. Ft. 15-inch Storm Drain.  
3,328 Lin. Ft. 18-inch Storm Drain.

418 Lin. Ft. 21-inch Storm Drain.  
412 Lin. Ft. 24-inch Storm Drain.  
236 Lin. Ft. 27-inch Storm Drain.  
385 Lin. Ft. 30-inch Storm Drain.

240 Vert. Ft. Manholes.  
35 Standard Manhole Castings.  
37 Catch Basins, complete.  
1 Lamp Hole.

138 Water Service Lines, complete.  
3,860 Lin. Ft. 6-inch Water Main in place.

3 500-Gallon Sewage Pumps.

3 20 H. P. 220-Volt Motor.

In accordance with Plans and Specifications on file in the office of the City Engineer of said city.

Each bid must be accompanied with a certified check of Seven Thousand Five Hundred (\$7500) Dollars, drawn on a solvent bank of the City of Daytona Beach or national bank of the State of Florida, made payable to the City of Daytona Beach, Fla., as a guarantee that within ten (10) days from notice of awarding of contract the successful bidder will enter into a written contract with the city and furnish acceptable bond in the amount of One Hundred (100%) per cent of the amount bid, conditional upon the carrying out of said contract.

Checks of unsuccessful bidders will be returned after the awarding of contract.

Plans, specifications and blank proposals may be obtained at the office of the City Engineer upon payment of \$10.

The City Commission reserves the right to reject any or all bids and to award the contract in the best interest of the City of Daytona Beach, Florida.

WALTER A. RICHARDS,  
City Manager.

R. L. PRICE,  
City Clerk.

C. N. TEAFF, City Engineer.

Bids close July 5, 1927.

**Sewers and Street Improvements**

St. Augustine, Fla.

Sealed proposals will be received at this office up to 3 o'clock on the 5th day of July, 1927, for constructing all or any part of the proposed improvements located in the City of St. Augustine, St. John's County, Florida, in West St. Augustine.

The various improvements to be constructed are:

Sanitary Sewers—22.65 miles of 4-inch to 18-inch Pipe, 273 Manholes.

Storm Sewers—.43 mile of 8-inch to 15-inch Pipe, 30 Catch Basins.

Paving—140,753 Square Yards.

Kentucky Rock Surface over old brick, 4020 Square Yards.

Curb and Gutter—25.39 Miles.

Sidewalk—2.06 Miles.

Excavation—88,064 Cubic Yards.

All work to be done in accordance with the plans and attached instructions, general provisions, special provisions, proposal, contract and specifications.

Proposals may be made for the construction of all or units of the total work as designated and specified in the plans and specifications. Provided, however, that the City Commission of the City of St. Augustine, Florida, reserves the right to accept bids for the construction of all or any unit of said work as the best interest of the city of St. Augustine may appear.

A certified check or a bidder's bond, executed on the attached form in the sum of five (5%) per cent of bid, and made payable to the City of St. Augustine, Florida, must accompany each proposal.

Plans and specifications are on file and may be examined at this office and at the office of Peter Kendrick Engineering Company, and copies may be secured on application to the office of Peter Kendrick Engineering Company for the sum of Twenty-five (\$25) Dollars.

No contract will be finally let, signed or executed by the City of St. Augustine, Fla., until bonds of the city shall be sold for said purpose sufficient in number so that the proceeds of said sale shall be available.

The contract will be let to the lowest responsible bidder.

The right is reserved to reject any or all bids.

**THE CITY COMMISSION OF THE CITY OF ST. AUGUSTINE, FLORIDA.**

By EUGENE MASTERS,  
City Manager.

Bids close July 7, 1927.

**Pumping Station and Filter Plant**

San Antonio, Tex.

Sealed proposals will be received by the Central Power and Light Company, San Antonio, Texas, at its offices in San Antonio up to 10 A. M. Thursday, July 7, 1927. Proposals are solicited on the following contracts covering the construction of a Pumping Station and Filter Plant, and the installation of a 20-inch Supply Main at Laredo, Texas.

- Contract A—Pumping Station and Filter Plant Structures.
- B—Filtration Equipment (4 1.5 M. G. D. Units).
- C—Motor-Driven Centrifugal Pumps.
- D—Cast-Iron Pipe and Fittings.
- E—Valves.
- F—Wash Water Tank.
- G—Installation of Cast-Iron Pipe, Fittings and Valves.
- H—Venturi Meter.
- I—Electric Light and Power Wiring.
- J—Chlorinator.

Each bid must be accompanied by a certified check or bidder's bond for ten per cent (10%) of the bid, payable to the order of the Central Power and Light Company.

Plans and specifications may be secured from the Central Power and Light Company at San Antonio, Texas, or from Alvord, Burdick & Howson, 1417 Hartford Building, Chicago, Engineers. All plans and specifications must be returned by hour of opening bids.

A cash deposit of \$10 will be required for pumping station and filter plant plans. Deposits will be returned upon return of plans prior to hour for opening bids. Plans additional to the first set will be furnished at cost of blueprinting.

The right is reserved to reject any or all bids.

**CENTRAL POWER AND LIGHT COMPANY.**  
S. M. UDDELL.  
General Superintendent.

**ALVORD, BURDICK & HOWSON,**  
ENGINEERS.

Bids close July 14, 1927.

**Water-Works System**

Roseland, La.

Sealed bids will be received by the Town Council, Town Hall, Roseland, La., until 10 A. M. Thursday, July 14, 1927, for furnishing material and constructing a water-works system. Bonds have been issued and sold in the amount of \$42,000 to pay for this work.

Additional information may be obtained from J. W. Billingsley, Consulting Engineer, Interstate Bank Building, New Orleans, La.

(Signed) W. E. PALMER, Mayor,

Roseland, La.

Bids close July 7, 1927.

**Water Purification Plant**

Rockingham, N. C.

Sealed proposals will be received by the Mayor and Board of Commissioners of Rockingham, North Carolina, until 11 o'clock A. M. on the 7th day of July, 1927, at the office of the Mayor, at which time all proposals will be publicly opened and read, for furnishing materials, labor, tools and equipment to complete such contracts as may be entered into for the construction of a Water Purification Plant, consisting of the following complete in place:

1—One-Million-Gallon Water Purification Plant, together with necessary appurtenances.

Plans and specifications will be on file at the office of the City Clerk, Rockingham, North Carolina, and at the office of the Engineers and will be mailed upon application accompanied by a check for \$25, which will be returned to bona fide bidders.

Each bid must be accompanied by a certified check to the amount of five per cent of the amount bid and not less than \$250, payable to the Treasurer of Rockingham, North-Carolina, without recourse.

All bids must be placed in a sealed envelope and endorsed on the outside "PROPOSAL FOR WATER-SUPPLY IMPROVEMENTS." The town prefers to let the entire work in one contract, but reserves the right to waive technicalities and let the work in parts to separate bidders, or let such parts of the work as is considered to be the best interest of the town, and reserves the right to reject any or all bids.

Contractors are cautioned to examine the plans and specifications thoroughly, form of contract, bond and conditions under which the work will be done before bidding.

Contractors must comply with the Act to Regulate the Practice of General Contracting as ratified by the General Assembly March 10, 1925.

T. L. COVINGTON, Mayor.

ZEBULON GIBSON, Clerk.

**THE CAROLINA ENGINEERING CO.**

Engineers,  
917-191 Johnston Building,

Charlotte, N. C.

G. H. BISHOP, Consulting Engineer.

Bids close July 6, 1927.

**Repairs and Replacements to Concrete Structures at Additions to Montebello Filters**

Baltimore, Md.

Sealed bids, in duplicate, endorsed "Proposals for Making Repairs and Replacements to Concrete Structures at Additions to Montebello Filters," addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 A. M. Wednesday, July 6, 1927, at which time they will be publicly opened and read.

Specifications and proposal forms may be obtained at the office of the Water Engineer, Room 205 City Hall, Baltimore, Md., on and after June 24, 1927. A charge of \$10 will be made for each set of specifications and drawings, which amount will not be refunded.

All bids must be accompanied by a certified check of the bidder on a clearing-house bank for the sum of Fifteen Hundred Dollars (\$1500), drawn to the order of the Mayor and City Council of Baltimore, and the successful bidder will be required to give satisfactory bond for the faithful performance of the agreement equal in amount to the value of the contract.

The Board of Awards reserves the right to reject any or all bids.

GEO. F. WIEGHARDT,

Water Engineer.

B. L. CROZIER,

Chief Engineer.

Bids close June 30, 1927.

**Smoke Stack and Refrigeration Plant**

Columbus, Miss.

Sealed bids will be received up to 11 A. M. June 30 at the Mississippi State College for Women, Columbus, Mississippi, for Smokestack and Refrigeration Plant for said college. Secure plans and specifications. P. J. Krouse, Architect, Meridian.

Check or bidder's bond for 5 per cent.

Address undersigned at Columbus.

**MISSISSIPPI BUILDING COMMISSION.**

By R. L. BROWN,

Secretary.

Bids close July 1, 1927.

**Water-Works Material**

Elizabethton, Tenn.

Bids will be received at the office of the Mountain Spring Water Company, Elizabethton, Tenn., until 2 P. M. July 1, 1927, for furnishing the following material:

11,700 Ft. 6-inch B&S Pipe, Class B or equal.

4 Tons C. I. Fittings.

3 10-inch H. E. Gate Valves and Boxes.

10 6-inch H. E. Gate Valves and Boxes.

1 10-inch H. E. Check Valve.

1 10-inch Float Valve.

1 50 G. P. M. Centrifugal Pump.

1 250 G. P. M. Centrifugal Pump.

1 10 H. P. Electric Motor.

1 15 H. P. Electric Motor.

1,200 Lbs. Portland Cement.

300 Cu. Yds. Concrete Sand.

600 Cu. Yds. Crushed Stone or Washed Gravel.

75,000 Lbs. Reinforcing Bars.

12,000 Lbs. Virgin Pig Lead.

400 Lbs. Oiled Jute.

5,200 ½-inch Galvanized Conduit.

10,500 No. 14 D. B. R. C. Wire.

Specifications and bid sheets will be furnished on application to the Construction Engineers.

The company reserves the right to reject any and all bids.

**MOUNTAIN SPRING WATER COMPANY.**

R. C. ALEXANDER, President.

W. P. DUNGAN,

Secretary and Treasurer.

**J. B. McCRARY ENGINEERING CORPORATION.**

Construction Engineers,

Atlanta, Ga.

Bids close June 29, 1927.

**Machinery Equipment, Tools and Supplies**

DEPARTMENT OF EDUCATION

OFFICE OF THE

BOARD OF SCHOOL COMMISSIONERS

Baltimore, June 15, 1927.

Separate sealed Proposals, in duplicate, indorsed "Proposals for Furnishing Machinery Equipment, Tools and Supplies for Vocational Shops for the Department of Education," "Proposals for Furnishing Gymnasium Equipment for the Department of Education" and "Proposals for Athletic Supplies for the Department of Education," addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 o'clock A. M. Wednesday, June 29, 1927.

Specifications for either of the above may be obtained at the office of the Board of School Commissioners, Madison and Lafayette avenues.

Each bid must be accompanied by a certified check of the bidder for \$50, made payable to the Mayor and City Council of Baltimore, and drawn on a clearing-house bank.

The successful bidder will be required to give bond for the faithful performance of his contract in an amount equal to the contract price, and to comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject bids for any or all items.

JOHN H. ROCHE,  
Secretary Board of School Commissioners.  
Approved June 15, 1927:

WILLIAM F. BROENING,  
President Board of Awards.

## PROPOSALS

## Manufacturers Record

Bids close July 12, 1927.

**Garbage Incinerator**

Tallahassee, Fla., June 18, 1927.

Sealed bids will be received until 12 o'clock noon July 12, 1927, by the City Auditor and Clerk for the construction of one garbage Incinerator.

**FURNACES**

to be of the two-unit type, with a guaranteed capacity of 50 tons in 12 hours; to burn average city run garbage, refuse, dead animals, etc. The stack to be not less than 100 feet in height and have radial design, constructed of brick of proper dimensions to care for duplicate furnaces, operating together or singular. Fan for forced air to be so arranged and of sufficient capacity to deliver approximately 13,000 cubic feet a minute, with air ducts so arranged to supply air to one or both furnaces at a time.

**BUILDING.**

The building to be of concrete or brick construction, with concrete foundation and floors, fireproof roof, "such as tile, concrete, etc." with a maximum window area; windows to be of steel construction, glazed with rough wire glass; stoking-room wall to have

two rolling steel shutter doors, approximately 11x10 ft. 6 in. Shower-bath and locker room installed by contractor, with necessary plumbing. The city to make the necessary water and sewerage connections thereto. Electric wiring to be installed by contractor, with necessary fixtures, and all wires to be placed in conduits and in accordance with the city electric code.

Bids to cover all necessary labor, material and excavation necessary in the construction of the Incinerator plant and building complete to be accepted upon final completion and after satisfactory tests have been made. A certified check for 5% of the bid shall accompany the bid, check to be made payable to the City of Tallahassee. Bidders are to furnish their own plans and specifications. The city is to build the driveway and approaches to Incinerator.

Plat showing location may be had upon request.

The city reserves the right to reject any and all bids, and reserves the right to award the contract to the best interests of the city.

WM. R. GALT, City Manager.

B. H. BRIDGES,

City Auditor and Clerk.

Bids close July 15, 1927.

**Sale of Surplus Materials, Equipment, Machinery and Parts**

Nashville, Tenn.

Notice is hereby given that sealed bids will be received by the Tennessee Department of Highways and Public Works until 10 o'clock A. M. on July 15, 1927, and opened publicly at the offices of the Department of Highways and Public Works in Nashville, Tennessee, at that hour and date, for the surplus equipment, machinery, parts and material now stored at the Nashville Garage of the Department.

Notice to bidders, list of equipment and proposal and additional information will be furnished at the request of the person or firm interested.

The right to reject any or all bids is reserved.

C. N. BASS,  
Commissioner, Department of  
Highways and Public Works,  
Nashville, Tennessee.

## CLASSIFIED OPPORTUNITIES

### MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

SELECTED STATE of New Mexico oil leases in 40-acre tracts and up at \$2.50 per acre. Other tracts from 50c. per acre up. If interested send \$1.00 for marked map showing well locations. Price of map refunded in case of purchase. WYLIE & BLINBRY, Box 827, El Paso, Texas.

FOR SALE, TRADE OR EXCHANGE—1936 A., 5180 A. and 1086 A. in Morgan County, Tennessee. Good coal and colonization lands. Some good timber on the rail-road and close; none over 4 miles. In proven oil territory; coal of finest quality; 5 workable veins on 5180 A.; 2 on other two tracts. These are the best bargains in the South. Price, \$10 per A.; on easy terms. The U. S. Realty Co., John H. Hatfield, Mgr., Room 4 Briscoe Building, Knoxville, Tenn.

**FOR SALE.**

50,000 acres of land southwest of Alexandria, Louisiana, a distance of 12 miles Rapides Parish. Am prepared to sell this land as a unit at a very low figure, with or without different buildings; a number of running creeks run through this tract; ready-made proposition for certain types of industries, such as a colonization project, a textile plant or the basis for a program reforestation. Certain tracts of this acreage have a fair stand of second-growth pine and hardwood; well served by gravel highway and railroad facilities. No better proposition for stock ranch, as we have the native grasses, which will keep cattle fat ten months in the year. Our Winter season is not severe on cattle; in fact, we don't have any Winter. It's south of all the big oil fields, ranging in distance of 35 to 50 miles, and we have several wells that have commenced to drill as close as 15 to 18 miles. Louisiana is underlaid with some kind of minerals all over this State.

E. M. SHUMAKE, Real Estate,  
Box No. 267, Alexandria, Louisiana.

**COAL LANDS AND MINES**

THE STRIKE in the Union Coal Fields means very profitable business for West Virginia. I have several very desirable coal-mining properties for sale in the Fairmont District.

G. B. HARTLEY,  
Fairmont, W. Va.

**COAL AND TIMBER LAND**

80,000 ACRES valuable Kentucky timber and coal lands. Must be sold at once to close estate.

E. D. WATKINS, Irvine, Kentucky.

### RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

### MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

**TIMBER AND TIMBER LAND**  
200 MILLION FEET virgin Rosemary Pine, also 50 million feet virgin hardwood; logging, transportation very good. Write first letter what you want and we can fill your demand, as price low. H. H. HANSEN, Macon, Mississippi.

**GUM VENEER WOOD FOR SALE.**  
5000 acres, East North Carolina: on navigable water, 1½ miles railroad; 75,000,000 big gum and 3,000,000 pine. Cost less than \$2.50 M. Terms liberal.  
W. R. BROADDUS, West Point, Va.

### FARM, FRUIT AND TRUCK LANDS

**FLORIDA**  
A WORD TO THE WISE!  
Take advantage of buyers' market in Florida while owners of real estate need money. We offer business and home property, groves and river fronts.

GOODWIN & BAKER,  
Fort Pierce, Florida.

### "FLORIDA HAS MADE THE GREATEST COMEBACK IN THE HISTORY OF THE WORLD."

C. W. Barron, International authority on Finance and Economics, in Wall Street Journal. Yes, we've made the safe landing, but it's still "Bargain Time" in Florida if you hurry; for instance, 400 acres, fertile land, 17 miles north of Tampa, \$20 per acre, half cash. Send today for booklet and list of Investments, Groves and Farms. TAMPA-WEST COAST REALTY CO.(INC.), Tampa, Florida.

### FARM, FRUIT AND TRUCK LANDS

#### NORTH CAROLINA

If interested  
**FOR HOME OR FOR INVESTMENT**  
In the great and rapidly developing  
**STATE OF NORTH CAROLINA**, especially in its leading city, Charlotte, or in a Southern Cotton Mill or Southern Mill Stocks, write to

F. C. ABBOTT & CO.,  
Realtors and Investment Bankers  
Nearly thirty years in Charlotte.

#### TEXAS

#### "TEXAS 'WINTER GARDEN' LANDS."

A subdivision in 20-40 acre tracts, cleared and irrigated; suitable for Citrus Fruits, Winter Vegetables, Staple Crops. Reasonable prices. INVESTIGATE our proposition TODAY.

BERMUDA LANDS COMPANY,  
401-4 Houston Building,  
San Antonio, Texas.

#### HOUSTON, TEXAS.

I offer for sale 300 acres, all in city limits and all within the 5-mile circle from center of Houston. This property has over 7500 feet frontage on public roads; 2600 feet railroad frontage. No other property offers better prospects for development. Natural gas, 16-inch main, runs for 2900 feet on one line of this property. If interested address G. C. STREET (references any bank here), R. 1, BOX 406, HOUSTON, TEXAS.

#### VIRGINIA

FOR RENT—Large watercress bed in Shenandoah Valley near Waynesboro, Virginia. Apply  
F. T. PRUFER, STAUNTON, VA.

#### WEST VIRGINIA

FOR SALE—To settle estate, excellent stock farm in Blue Grass section W. Va.: 1100 acres, splendid dwelling house, cattle barns, etc. Box 334, Alderson, W. Va.

### SUB-DIVISION PROPERTY

BILOXI, MISS., 1591 feet facing the Gulf. Full Riparian Rights; 486 acres running through from Gulf of Mexico to Back Bay of Biloxi; 8000 feet frontage on Back Bay. Most beautiful subdivision on the coast. Price and terms exceptionally good.

W. E. STEWART,  
402 Tribune Building,  
Terre Haute, Ind.

## BUSINESS OPPORTUNITIES

**FOR SALE**—Huge deposit high-grade soapstone and well-equipped plant on railroad. Price very reasonable. JOHN C. JAMISON, P. O. Box 405, Roanoke, Va.

A LIBERAL INTEREST will be assigned to the manufacturer or promoter who develops and markets the Revolving Road Planer, covered by patent No. 1629678. Address No. 6748, care of Manufacturers Record.

BUSINESS MAN (Southerner), now in New York City, desires re-enter business in South, where business is established, but can use some additional cash, bank credits and management. Room 1003 Cunard Building, 25 Broadway, New York.

COCA-COLA BOTTLING PLANT located in mid-western city. Direct franchise. Modern plant. Surfaced roads. Will bottle 5000 gallons Coca-Cola and gross 60,000 cases this year. Price \$35,000. Address No. 6722, care Manufacturers Record.

**WANTED**—A manufacturer equipped to produce a labor-saving intercommunicating mechanical-electrical device now ready for market. He must be in financial position to carry on production during introductory period. We have the sales force. This is an exceptional opportunity. Address No. 6759, care Manufacturers Record, Baltimore, Md.

IF YOU HAVE a conservative business mercantile, jobbing or factory—and would like to retire I have a client with several office and store buildings, showing very good income and increasing steadily in value, that will trade in one of these and give or take cash difference for an active business. Would prefer something of one to two hundred thousand dollars' value. H. O. ESTES, Realtor, Haines City, Florida.

## HOTEL SITE

WASHINGTON, D. C., Hotel Site, one square Union Station; fronts two streets; alley. Best unimproved in Capital City. Zoned for 9-story building. For information write J. L. Dillard, 110 Third street N. E., Washington, D. C.

## FACTORY SITES

SITES AT BATON ROUGE, Southernmost Mississippi River location above high water; seventh port, strategic rail shipping point, natural gas; location world's largest oil refinery. Alfred D. St. Amant, Baton Rouge, La.

FACTORY SITE For Sale—40 acres, 1150 feet front, on C. C. & O. & Sou. R.R.'s, 2 miles east of Marion, N. C. Also 60 acres with 400 H.P. water-power site, 3 miles from mill site; fine opportunity. C. A. WILKIE, Forest City, N. C.

TAMPA, FLORIDA—the logical distributing point. HARRIS TERMINALS—fully equipped with railroad tracks on both the Seaboard and Atlantic Coast Line railroads. We solicit your inquiries for WAREHOUSE and FACTORY sites. Prices and terms reasonable. HARRIS REALTY CO., Realtors, 105 W. Cass St., P. O. Box 585, Tampa, Florida.

WASHINGTON, D. C. Industrial zone, 2 miles Southeast Capitol Building, 596 feet adjacent B. & O. R. R., 210 feet fronting Sumner Road, 82,347 sq. ft. at 30c per sq. ft.: 10 p. c. off for cash. Concrete roads, sewer and water connections. Improving prospects. River wharfage 1½ miles South of Capitol Building may be arranged. W. H. BRYSON, 1017 Clinton Street, Philadelphia, Pa.

## INDUSTRIES WANTED

**INDUSTRIES WANTED**—In Richmond, Ky. Located in Bluegrass region. Excellent shipping facilities, abundant cheap electric power. Plenty labor and water. No city or county taxes on machinery. Meet any reasonable request. Write J. B. Arnold, Secretary Exchange Club.

## INDUSTRIES WANTED

**INDUSTRIES WANTED** by incorporated city in St. Louis County. Splendid factory sites, railroad facilities, good supply of labor and housing. Interested parties may write.

HENRY C. HILDEBRANDT,  
Valley Park, Mo.

HARRIMAN, TENNESSEE, wants a Cement Plant; all necessary raw material within a radius of 1 mile. A Milk-Condensing Plant; good factory site in wonderful milk-producing country. A Canning Plant; in the famous peach-growing section. A Furniture Factory; cheap raw material; good factory sites; pure water; cheap coal; ample electric power. Special inducements given those seeking a location. For further information write John H. Hatfield, Mgr., U. S. Realty Co., Room 4 Briscoe Building, Knoxville, Tennessee.

## INDUSTRIAL PLANTS

**FOR SALE**—Furniture Factory with well-established trade. Located in Western North Carolina at a good shipping point and adjacent to large hardwood lumber supplies on low freight rates. Reason for selling, present owners wish to retire from active business. Address inquiries to No. 6759, care of Manufacturers Record, Baltimore, Md.

**GOING MILLWORK PLANT FOR SALE.** The property and good will of an up-to-date, modern millwork plant, adapted either for interior trim, cabinet work, etc., or at a very small expense could be changed to a furniture factory or variety works. Plant consists of modern dry kilns, modern machinery, electrically driven. Plant has the reputation of doing the very highest class millwork. Business has future and capable of expansion. For further information write Dickinson & Freeman, Attns., Goldsboro, N. C.

## PATENTS

**EXCLUSIVE RIGHT**, United States, newly patented display rack; holds mattresses on edge; meets dealers' needs; inexpensive; made of wood; nothing like it.

J. C. JENNINGS, Winnsboro, Texas.

## PATENT ATTORNEYS

**PATENTS—TRADEMARKS—COPYRIGHTS** Charlotte Office convenient to South. PAUL B. EATON Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place, N. W., Washington, D. C.

**PATENTS, TRADEMARKS, Designs, Copyrights.** Free preliminary advice; confidential and prompt. Registered patent attorney, formerly examiner in U. S. Patent Office. ALBERT L. JACOBS, Barrister Building, Washington, D. C.

**PATENTS**—Booklet free. Highest references. Best results. Promptness assured. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St. N. W., Washington, D. C.

**PATENTS—TRADEMARKS—COPYRIGHTS** Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing invention. Send model or sketch and description of your invention for our Inspection and Instructions free. Terms reasonable. Highest references. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

**INVENTORS**—Send sketch or model of your invention for opinion concerning patentable nature and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on Patent procedure and tells what every inventor should know. Established 25 years. Chandlee & Chandlee, 412 Seventh St. N. W., Washington, D. C.

## SITUATIONS WANTED

**CHEMICAL ENGINEER**, with proven ability to produce results in technical selling or promotion, desires high-class connection. Five years' experience in laboratory and field. Will travel anywhere in this country. No. 6758, care of Manufacturers Record, Baltimore, Md.

## SITUATIONS WANTED

**CIVIL ENGINEER**, graduate, 30, single, desires position with construction or engineering company; experience in river and harbor improvements, bridges, reinforced concrete, track layout, estimating and construction.

K. HUNDERUP,  
Box 85, Chillicothe, Ill.

**SALES EXECUTIVE**, age 35, intelligent, resourceful, good organizer, seeking connection where such ability will command proper financial return. Good approach, logical presentation and not frightened by large volume business. While not fanatical, will entertain no propositions involving dissipation or graft. Address No. 6757, care of Manufacturers Record, Baltimore, Md.

**EXPERIENCED SALES MANAGER** desires position with manufacturer of Road-Building equipment or allied lines. Personally acquainted with distributors' organizations throughout the United States, especially in all States east of the Mississippi River. Will furnish unquestionable references as to ability, character and faithfulness. With present organization nine years. Have had actual experience in shop practices and office management. Address No. 6756, care of Manufacturers Record, Baltimore, Md.

## MEN WANTED

**OLD-ESTABLISHED** Rolling Mill is in the market for a High-grade Steel Sales Engineer. One familiar with Southern territory, with a good sales record in the sale of Rail Bar Reinforcing Steel Channels and Angles. Salary commensurate with ability. Address No. 6755, care of Manufacturers Record, Baltimore, Md.

**SALESMAN WANTED**—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation.

American Security Credit Company,  
General Offices,  
St. Louis, Mo.

**IF YOU ARE OPEN** to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established sixteen years. Send only name and address for details.

R. W. BIXBY, INC.,  
103 Downtown Bldg., Buffalo, New York.

## CONTRACT WORK WANTED

**MANUFACTURING PLANT**, well equipped and located, wants something to manufacture, preferably heavy machinery. All facilities necessary, including engineering department, patent shop, foundry with a capacity for single castings in either gray iron or semi-steel up to twenty tons; well-equipped machine shop, erecting floors, etc. No. 6683, care of Manufacturers Record.

## MACHINERY AND SUPPLIES

**FOR SALE**—By D. C. ELPHINSTONE, INC., 120 South Calvert street, Baltimore, Md. One No. 14-E "KOEHRING" Wheel-traction PAVER, with boom and bucket. For sale cheap.

**ICE-MAKING AND REFRIGERATING MACHINERY**—New and rebuilt. Our prices on new Waynesboro Refrigerating equipment, delivered and installed, very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. GEISER MANUFACTURING COMPANY, "Department E," Waynesboro, Pa.

## MACHINERY AND SUPPLIES WANTED

**WANTED**—Two freight elevators, one to three tons. H. L. THOMAS,  
431 North Front street, Baltimore, Md.



## SPECIAL ADVERTISEMENTS OF GENERAL INTEREST



### Fabricated One-Story Steel Frame BUILDING—For Sale

522 ft. long; 74 ft. 6 in. wide; 42 ft. high on sides plus 20 ft. high roof.

Suitable for Warehouse, Boiler or Structural Steel Shop or one-story Manufacturing Plant. Used by the International Shipbuilding Co. during the War for Steel Plate work.

Now disassembled and marked, ready for shipment at Pascagoula, Miss.

*Will sell all or part, CHEAP.*

CHAS. T. LEHMAN  
BIRMINGHAM ALABAMA

### FOR SALE AT AUCTION

JULY 9th, 1927

Fully equipped electrified Soapstone Quarry and Mill in the famous Albemarle Field of Albemarle County, Virginia. This field contains ninety per cent of the world's supply of massive soapstone.

Core drilled, proven stone on property over thirty million cubic feet. Private sale can be effected up to five days before date of sale. For information, write or wire:

T. MUNFORD BOYD, Trustee  
North Fifth Street Charlottesville, Virginia

### IDLE MACHINERY

cannot be disposed of if no one knows you have it to sell

*Advertise it in the  
MANUFACTURERS RECORD*



### RESALE DEPARTMENT

MACHINERY

EQUIPMENT

SUPPLIES



### FOR SALE AT Attractive Prices

- 3—SWENSON VACUUM EVAPORATORS, Triple Effect, 3300 sq. ft. each effect. Rated Evaporating Capacity each unit 250,000 gals. water per 24 hours. Complete with Vacuum Pumps, Condensers, Heaters, Liquor Pumps, and Piping.
- 5—CARLSON DISC EVAPORATORS, Double, Rated evaporating capacity 600 gals. water per hour per unit. Complete with all equipment.
- 4—CARLSON ROTARY INCINERATORS, 9'x20'. Fully equipped with Lining, Drive, etc.
- 2—LEACHING CELLS, 5'x9'.
- 4—FROST STEAM ENGINES, 75 BPH., 250 RPM., 150 lbs.
- 1—CHALMERS WILLIAMS PEBBLE MILL, 5'x12'.
- 1—BLAKE CRUSHER, Type B, 9"x15".
- 40—STEEL TANKS, Capacities from 1700 gals. to 280,000 gals.

In First Class Condition

Immediate Shipment

**J. C. PICKENS**

Nitro

West Virginia

### RECONDITIONED PIPE GOOD AS NEW

*Suitable for  
OIL or WATER LINES*

*Guaranteed Threads and Couplings*

We specialize in "Odee" pipe welded in double lengths for gas lines.

Carrying a large stock which enables us to give quick service.

50,000 ft.	2"	9c per ft.
20,000 ft.	3"	18c per ft.
40,000 ft.	4"	30c per ft.
10,000 ft.	6"	50c per ft.
3,000 ft.	8"	75c per ft.
2,000 ft.	10"	1.00 per ft.
1,000 ft.	12"	1.25 per ft.

*FOB Cars Madison, Illinois*

**STANDARD RAIL & STEEL CO.**

MADISON, ILLINOIS

TULSA, OKLA.



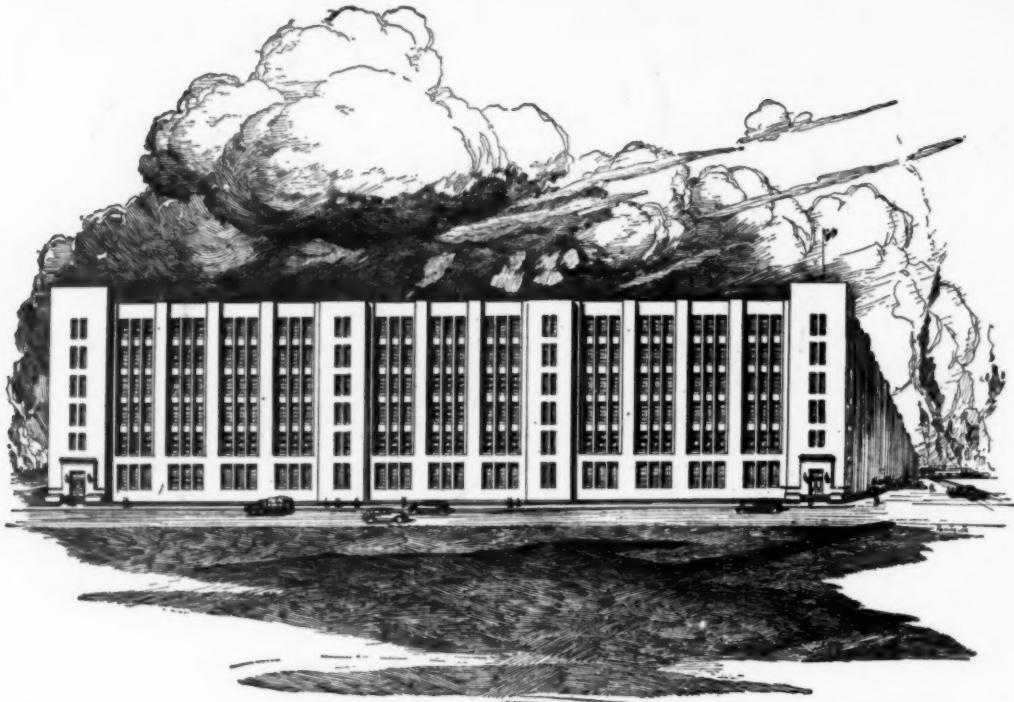
Wherever records for low cost of handling materials are made—and broken—you will find Goodrich Conveyor Belts contributing their share to economical production.

*Let our engineers cooperate with yours*

THE B. F. GOODRICH RUBBER CO.  
Established 1870 Akron, Ohio

# Goodrich CONVEYOR BELTS

*"Best in the Long Run"*



## To Executives Interested in Their Company's Building Program

DOES your building program call for a multi-story reinforced concrete warehouse, a new and up-to-date manufacturing plant, branch plants at distant points?

No matter what type or size of building your requirements call for, Austin is prepared to serve you well.

You want speed, perhaps. Most owners do. Austin's speed in design and construction is well known to hundreds of America's leading concerns, who have seen their buildings completed in one-half or one-third the time usually required.

You want the most value obtainable for your money—under the Austin Method of Undivided Responsibility, design, construction and equipment are all handled by this one responsible, capable organization.

Austin guarantees:

- A Total cost for the complete project in advance.
- B Completion date, with bonus and penalty clause if desired.
- C Quality of materials and workmanship.

This is the modern way to build for sure satisfaction. Whether your project calls for multi-story or single story construction, 50,000 or 1,000,000 sq. ft., it will pay you to get in touch with Austin.

*Write, wire, or phone the nearest office listed below.*

**THE AUSTIN COMPANY, Engineers and Builders, Cleveland**

New York Cincinnati Chicago Detroit Pittsburgh Philadelphia St. Louis Seattle Portland Miami  
The Austin Company of Texas: Dallas The Austin Company of California: Los Angeles and San Francisco

# AUSTIN

Complete Building Service

Memo to THE AUSTIN COMPANY, Cleveland—

We are interested in a

project containing \_\_\_\_\_ sq. ft. Send me a personal copy of

"The Austin Book of Buildings." Individual \_\_\_\_\_

Firm \_\_\_\_\_

City \_\_\_\_\_

MR 6-23-27



